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October 20, 1999

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Mr Craig Zeller
U S. Environmental Protection Agency
61 Forsyth St., SW
Atlanta, GA 30303

Subject: 1999 Lake Hartwell Fish and Sediment Monitoring Report



Dear Mr. Zeller:

Please find attached 20 copies of the 1999 Lake Hartwell Fish and Sediment Study Report. Two of the copies include the Appendices of the report and 18 copies are text, Tables, and Figures only. Mr. Butch Younginer and Mike Alexander have also been sent complete copies.

If you have any questions concerning the report, do not hesitate to contact me.

Regards,

A handwritten signature in black ink, appearing to read "James R. Orr".

James R. Orr

Enclosures
JRO/gsq

- c. Bob Dwyer
Cliff Kirchof
Brian Curtis
John Hanson

10115923



FISH AND SEDIMENT STUDY

RMT, Inc.
Stafford, Texas

Lake Hartwell 1999 Fish and
Sediment Study
Operable Unit 2 ROD
Monitoring Program

October 1999

Environmental Resources Management

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Project Manager

Reviewed by

Environmental Resources Management
7106 Crossroads Boulevard
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EXECUTIVE SUMMARY

Annual monitoring of PCBs in sediments, fish tissues, and *Corbicula fluminea* samples have been conducted since 1995 as part of post-ROD monitoring of Operable Unit 2 (Lake Hartwell) of the Sangamo Weston Superfund site. This report presents the results of the 1999 monitoring effort. PCB concentrations were analyzed in sediment samples collected in April and May 1999 from 21 stations throughout the study area, including the Twelvemile Creek watershed (six locations) and Lake Hartwell (ten locations in the Twelvemile Creek and Seneca River Arm and five in the main body of the lake). In addition, a 28-day *Corbicula* study was conducted at seven locations in the Twelvemile Creek area. Approximately 50 *Corbicula* were placed in baskets at each of the seven locations in Twelvemile Creek and analyzed for PCBs following the 28-day field exposure period. Lastly, a total of 154 fish samples, representing largemouth bass, hybrid bass, channel catfish, bluegill, threadfin shad, and gizzard shad were collected from six locations in Lake Hartwell during April and May 1999.

The sediment and fish data collected in 1999 continue to show the general pattern observed over the past several years – PCB concentrations are decreasing over time, and are decreasing with increasing distance from the Twelvemile Creek Arm of Lake Hartwell, where the PCBs originally reached the lake.

PCB concentrations in surficial sediments continue a general pattern of decreasing with increasing distance from the maximum sediment deposition area. Further, PCB concentrations in surficial sediments throughout the lake continue to decrease over maximum concentrations observed in 1995, although concentrations increased over 1998 values at some stations, as an artifact of disturbance of historical sediment deposits upstream (as discussed below). The 1999 sampling also confirmed the continued decrease of residual PCBs in the free-flowing portion of Twelvemile Creek upstream of the lake.

A comparison of the 1999 results to the historic values discussed in the 1993 RI Report, show the concentrations of PCBs decreased significantly in the upper Twelvemile Creek area, particularly Town Creek, indicating a flushing of this area. Concentrations detected in other portions of Twelvemile Creek and in tributaries below Town Creek were significantly lower than the historic values. In the lower Twelvemile Creek area, PCB concentrations generally range from less than 0.137 to 5.78 ppm. Those

values were similar to historic findings or lower than historic findings and, in some cases, significantly lower.

Corbicula tissues from organisms exposed in baskets in Twelvemile Creek downstream of the plant site, a sensitive indicator of PCBs in the water column, also showed decreases over 1995-1997 levels. The only exception was at the station near the maximum deposition area in the upper (impounded) portion of the Twelvemile Creek Arm, where *Corbicula* tissue concentrations remained near past levels.

PCB concentrations in the tissues forage fish species (bluegill, gizzard shad, and threadfin shad) all show a consistent pattern of decreases with distance from the Twelvemile Creek Arm, and, generally, decreases from 1995-1997 levels. The only exception is threadfin shad collected in the upper Twelvemile Creek Arm, where tissue concentrations have remained at historic levels.

Tissue PCB levels in the mobile hybrid bass, as expected, do not show a consistent spatial pattern; these predatory fish range over the entire lake, and consume prey that reside in different areas with a range of PCB concentrations. However, PCB concentrations have consistently declined over time at all stations from the high levels observed in the early to mid-1990s. Most of the hybrid bass sampled in 1999 had tissue concentrations below the FDA tolerance of 2.0 ppm.

PCB concentrations in the tissues of less mobile gamefish species (largemouth bass and channel catfish) consistently show a spatial pattern of decreasing concentration with distance from the Twelvemile Creek Arm. Temporally, channel catfish tissue concentrations have decreased consistently at all stations from the high values of the early to mid-1990s. Only 3 of 24 fish collected in 1999 exceeded the FDA tolerance. Largemouth bass show a consistent pattern of decreasing tissue concentrations from the Twelvemile Creek Arm of the Lake downstream; however, there is no strong pattern of temporal decreases. Although the majority of the bass sampled around the lake are below the FDA tolerance level, the fish that exceed the tolerance are concentrated in the Twelvemile Creek Arm.

Although PCB concentrations in the 1999 sediment and fish tissue samples have decreased greatly relative to the historical data collected in the early to mid-1990s, some 1999 data showed increases in PCB concentrations over samples from the same stations in 1998. This is likely related to the release of historical sediment deposits (remnants of prior PCB discharges) from the hydroelectric reservoirs on Twelvemile Creek in October 1998. The surficial sediment sampling in April and May of 1999 occurred

approximately seven months after a large volume of sediment was intentionally released from two upstream hydroelectric reservoirs (Woodside I and II). The purpose of that release was to restore the natural sediment load of Twelvemile Creek. The most apparent effects of those releases were observed in the sediments and some of the resident fish species in the historic sediment deposition zone in the upper and middle Twelvemile Creek Arm of the lake.

Although this report discusses observations on apparent "trends" in various data sets, and makes observational comparisons of differences from one year's samples to the next, such conclusions about apparent trends are not rigorous because the data have not been subjected to any formal statistical analysis. The monitoring program implemented since 1995 was designed to assemble 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods that would take full advantage of the statistical power of the full data ensemble. Less rigorous analyses such as *t*-test comparisons between samples from adjacent years are not appropriate because of the inherent variability of the data, and the fact that the number of replicate samples is too small for such pairwise testing

During 1976, the South Carolina Department of Health and Environmental Control (SCDHEC) and the United States Environmental Protection Agency (U.S. EPA) discovered that fish from certain areas of Lake Hartwell (Anderson, Pickens and Oconee Counties) were contaminated with polychlorinated biphenyls (PCBs). This contamination was above the safe tolerance level for consumption of fish by humans established by the United States Food and Drug Administration (USFDA). Subsequent to these findings, a fish consumption advisory was issued for portions of Lake Hartwell as a conservative measure to reduce human exposure.

The SCDHEC has conducted yearly studies in Lake Hartwell since 1976 to evaluate the level of PCB contamination in fish. The primary focus of these studies has been to gather current PCB data for yearly updates in the fish consumption advisory. Annual results are available through 1993. During 1990, portions of Lake Hartwell became eligible for Superfund clean-up funds under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. As a part of the June 1994 Final Record of Decision (ROD), aquatic biota monitoring and sediment sampling were required. The aquatic biota monitoring primarily includes a comprehensive fish tissue study, which involves fish tissue sampling similar to the historic annual monitoring by the SCDHEC.

Summarized in this report are the results of the 1999 fish tissue, *Corbicula*, and sediment study of Lake Hartwell. In addition, the fish tissue data collected by the State of South Carolina, Savannah District Corps of Engineers, and ERM from 1990 to present are included in bar charts to identify potential trends in PCB concentrations.

Sediment, *Corbicula*, and fish sampling was conducted in accordance with the procedures prescribed in the Final Record of Decision dated June 1994, and in coordination with SCDHEC, the Savannah District Corps of Engineers, and U.S EPA Region IV. Mr. Butch Younginer of SCDHEC, Mr. Andy Gaston of the Savannah COE, and the South Carolina Fish and Game Commission were notified prior to sampling. Representatives from each agency did not request to participate in the sampling.

Sediment samples were collected with a petite ponar dredge on April 28 through May 13, 1999. Rainfall had been heavy during April and both Town Creek and Twelvemile Creek water elevations were higher than normal. The dredge has a six-inch by six inch opening. In soft sediments, it will collect to a depth of approximately six inches. Five grab samples were collected across the channel (typically bank to bank) at each open water location, and individual grab samples were collected in the Twelvemile Creek stream locations. Composite samples were thoroughly mixed in an aluminum container prior to sampling with a clean stainless steel spoon. Each sample consisted of two, four-ounce glass jars. Samples were immediately placed on ice to provide required temperature through sample delivery.

The ponar, an aluminum container used for mixing the composite samples, and stainless steel spoons were decontaminated between sample locations using a detergent wash, deionized rinse, pesticide grade isopropanol rinse, and another deionized rinse. Equipment rinse blank and trip blank samples were collected each day with the sediment samples, and two duplicates were collected for a total of 23 sediment samples. Samples were shipped on ice overnight to Northeast Analytical Laboratory (NEA). Both fish and sediment samples were analyzed by SW-846 Method 8082 for PCBs. In the field, composite samples of surficial sediments were collected across the channel at each station with a ponar dredge (sampling surficial sediment to a maximum depth of approximately six inches) in the lake, while grab samples from depositional areas of fine silt material were collected in the stream stations. Both PCBs and total organic carbon (TOC) were analyzed from each sample in order to determine the correlation between PCB concentrations and organic material in the surficial sediment.

A total of seven sample locations were utilized for the analysis of bioconcentration of PCBs in *Corbicula* tissue. Reference organisms were

collected from Wolf Creek and transported the same day to the other test locations.

Corbicula from Wolf Creek were utilized because of the low PCB concentrations detected at this location in the past, the great abundance of *Corbicula* at this location, and a reduction in handling time. *Corbicula* were retrieved after 28 days of incubation (April 28 through May 26, 1999), placed in labeled plastic bags, and stored directly on ice. Baskets were collected from each site with no mortalities noted. Organisms were transported to the ERM laboratory on ice and then frozen. After freezing to euthanize the *Corbicula*, samples were shipped to NEA for dissection and analyses.

Fish targeted for sampling included: largemouth bass (*Micropterus salmoides*), hybrid bass (*Morone sp.*), channel catfish (*Ictalurus punctatus*), bluegill (*Lepomis macrochirus*), gizzard shad (*Dorosoma cepedianum*) and threadfin shad (*Dorosoma petenense*). Two striped bass (*Morone saxatilis*) were substituted for hybrid bass due to inadequate size of hybrid bass at some stations.

Fish were collected from April 20 through May 13 by electrofishing and gill netting techniques. Fish were kept on wet ice from the time of sample collection to dissection. After sample collection, fish weight (g) and length (mm) were measured and recorded in a logbook prior to fillet collection. Data recorded for each sample included species, location, weight, length, date, sex, grab or composite sample type, and sample number. Fillets were collected with a pre-cleaned stainless steel fillet knife. Prior to fillet sampling, fish were placed on a table covered with clean sheets of aluminum foil. Foil was changed between fish species and stations. All fillets and whole fish samples were wrapped in aluminum foil (dull side to the tissue), placed in a zip-lock or plastic bag, labeled and placed on ice. Samples were sent to the analytical laboratory on wet ice, rather than frozen, to facilitate sample preparation and reduce sample handling. Fat deposits and viscera were removed from each fillet rib cage prior to wrapping of the sample. Sample collection was conducted in the field at various locations. The sampling equipment was decontaminated with detergent wash, pesticide grade isopropanol rinse, and deionized water rinse between each species and station. Equipment rinse blank and trip blank samples were collected every 20 samples for quality control purposes. One in 20 samples was identified for duplicate analysis and split from the sample in the laboratory after grinding. The size class range of fish included:

Largemouth bass	1.5-3.0 lbs. (680-1,361 g)
Channel catfish	1.5-4.0 lbs. (680-1,814 g)
Hybrid bass	3.0-5.0 lbs. (1,361-2,268 g)
Bluegill	3-5 inches (76-127 mm)
gizzard shad	>12 inches (>305 mm)
Threadfin shad	>3 inches (>76 mm)

Fish were sent overnight by Federal Express to NEA in Schenectady, New York, a South Carolina-certified laboratory. The fish samples were received at 4° Celsius.

3.1**SEDIMENTS**

Sediment data are summarized in Table 1 for the 21 samples collected in April and May of 1999 (see Appendix A for individual results of analyses). Figures 1 and 2 depict the sediment sample locations in Lake Hartwell and the Twelvemile Creek watershed, respectively. Included in Figures 1 and 2 are the PCB concentrations detected during the 1999 sampling period. Sediment values ranged from non-detected levels observed in the Wolf Creek and Town Creek tributaries of Twelvemile Creek to 5.78 ppm collected at SD-013 in the Twelvemile Creek Arm.. The concentrations generally decreased in an upstream direction from the high value of 5.78 ppm to a concentration of 0.308 ppm near Maw Bridge (SD-006). The concentrations in Twelvemile Creek upstream of Lake Hartwell ranged from 0.404 ppm to 2.18 ppm reported directly downstream of the OU-1 plant site outfall (SD-001). A value of less than 0.065 ppm was reported for the station upstream of the outfall in Town Creek (SD-000). The PCB concentrations also declined in a downstream direction from the maximum value in the Twelvemile Arm (SD-013) to a concentration of less than 0.403 ppm in the Seneca River Arm. In addition to the total PCB values given in Table 1, the various PCB Aroclors are identified for each sample. Aroclors identified in the sediment, in descending order of concentration and occurrence primarily include: 1242, 1254, and 1248. Aroclors 1232, 1221, 1260, and 1016 were not detected in the sediment. These combinations of Aroclors and their prominence in the samples are similar to the 1998 samples where 1242 was the most abundant while Aroclors 1232, 1221, and 1016 were not detected. Figure 3 provides the results of sediment analyses for the past five years of data collection. Figure 3 generally illustrates the deposition of PCBs in the Twelvemile Creek/Lake Hartwell system. The highest concentrations of PCBs are found in the lower end of the Twelvemile Creek Arm (SD-009 through SD-013). Generally, the sediment PCB concentrations were higher in 1999 than in 1998, historically the area of greatest deposition of sediments transported from Twelvemile Creek. This apparent increase may be related to a release of historical deposits of sediment from hydroelectric reservoirs upstream in Twelvemile Creek, as discussed in Section 4.1.

The TOC values for all sediment samples range from less than 2,100 ppm at SD-005 to 39,000 ppm at SD-535. The TOC values were higher in areas downstream of SD-006 in the Twelvemile Creek area, which indicates an area of deposition. The TOC results are presented graphically in Figure 4

for the four sampling events of 1996 to 1999. The TOC values are higher than the 1998 data, which may explain the general increase in the PCB concentrations detected. Again, this apparent increase may be related to releases of sediments from upstream.

3.2

CORBICULA

The analytical results of the seven *Corbicula* samples are summarized in Table 2 and illustrated in Figure 5. Analytical Data Sheets are provided in Appendix B. Of the seven specific Aroclor compounds reported by the analytical method, four were detected in the *Corbicula* tissue. The Aroclors detected were 1221, 1242, 1248, and 1254. The *Corbicula* results are also graphically presented in Figure 6 for the five sampling events of 1995 to 1999. The highest concentrations of PCBs were detected in *Corbicula* tissue immediately downstream of the OU-1 facility in Twelvemile Creek at Maw Bridge (C-6) (maximum 6.41 ppm). The concentration in *Corbicula* downstream of the OU-1 plant site was higher than in 1998 (2.10 ppm). The PCB concentration in *Corbicula* tissue at the Twelvemile Creek background location (C-2) was 0.153 ppm, while the concentration in the upstream Town Creek location was similar (0.246 ppm) to the 1998 value (0.136 ppm).

3.3

FISH

Sampling locations were selected to coincide with previous Lake Hartwell sample collections. The six fish tissue sampling locations are depicted in Figure 7. Also illustrated in Figure 7 are the mean PCB concentrations for the three filleted fish species sampled during 1999. Provided in Table 3 is the summary of the 1999 Fish Tissue Study results, with the analytical data sheets provided in Appendix C. Included in Table 3 are the sample number, sample date, sampled species, length, weight, sex and PCB concentration. The breakdown of the specific Aroclors for each fish sample is summarized in Table 4. These data indicated the presence of Aroclor 1254 and 1260. Presented in Table 5 are the PCB concentrations in each largemouth bass collected from each location, as well as the mean and standard deviation for each station. The mean data are also graphically depicted on this table to illustrate the trends in mean concentrations between stations. Similar information is presented in Tables 6 and 7 for hybrid bass and channel catfish, respectively. These data are summarized for bluegill, threadfin shad and gizzard shad in Table 8.

The PCB concentrations were below the 2.0 ppm FDA tolerance level in largemouth bass fillets at four of the six locations. The mean values at SV-107 and SV-106 were 11.69 ppm and 2.45 ppm, respectively. The PCB concentrations were less than 0.3 ppm at SV-641 and SV-642, the two stations farthest downstream in the lake. The 2.0 ppm FDA limit was not exceeded in three of the six stations for hybrid bass fillets. The maximum mean value was detected at SV-106 (4.36 ppm), and the lowest mean value was detected at the station nearest the dam, Station SV-642 (0.99 ppm). The FDA limit was exceeded only at Station SV-107, the most upstream station in the Twelvemile Creek Arm of Lake Hartwell, for catfish fillets with a mean value of 2.27 ppm. The PCB concentrations at all other stations were less than 1.50 ppm in catfish fillets.

The mean PCB concentrations in whole-tissue samples of forage fish (Table 8) indicate various degrees of bioaccumulation in four of the nine samples greater than 2.0 ppm. Unlike the 1998 study, the concentrations detected in bluegill were lower than in either gizzard or threadfin shad, with two exceptions, (concentrations were higher in bluegill than in threadfin shad at SV-532 and SV-641). The PCB concentrations were less than 2.0 ppm in five of the nine forage fish samples and less than 1.7 ppm for all species at SV-641. The PCB concentrations were lower in each forage fish species with increasing station distance from the Twelvemile Creek Arm of Lake Hartwell. The forage species with the highest PCB concentration (5.01 ppm) was threadfin shad at SV-107.

The PCB concentrations detected in the 1999 fish study were compared to historic data dating from 1990 to present. Illustrated in Figures 8 through 10 are the trends in average PCB concentration of fish fillets for largemouth bass, hybrid bass and channel catfish, respectively. Each figure depicts the trends of PCB concentrations for each of the six locations sampled. The 2.0 ppm FDA limit was consistently exceeded in largemouth bass fillets (Figure 8) from two stations, SV-107 and SV-106 (both in the sediment deposition area in the Twelvemile Creek Arm), during this ten-year period. A single exceedance was reported at SV-532 during 1994. No exceedances in average largemouth bass PCB concentrations have been reported downstream at SV-535, SV-641 and SV-642 from 1990 to 1999. Distinct trends over time were not observed in the data in the lower four stations (where concentrations were generally below 2.0 ppm) while generally lower concentrations of PCBs were detected at SV-107 and SV-106 from 1990 to the present. The PCB concentration detected at SV-107 (11.69 ppm) during 1999 is similar to the concentrations detected in 1990 and 1991. The concentrations detected in 1996, 1997, 1998, and 1999, however, were generally less than the concentrations detected in 1990 and 1991 with the above-mentioned

exception. This is believed to be reflective of an overall decrease in PCBs due to source reduction, burial, and natural degradation.

The database for hybrid bass does not include all years for all stations for the period 1990 through 1999 due to difficulties in collecting this highly mobile species. Hybrid bass were collected at all locations during 1999. However, striped bass were substituted at some stations due to inadequate size of hybrid bass during the sampling period. The mean PCB concentrations (see Figure 9) to indicate that the trend of PCB reduction indicated by largemouth bass on a localized basis is somewhat evidenced by hybrid bass. The historic data indicate that PCB concentrations appear to be randomly scattered by date and location. The 1999 data indicate that concentrations of PCBs were lowest in the station near the dam (Station SV-642), which is the greatest distance from Twelvemile Creek. The locations with generally the highest concentrations are SV-106 and SV-532. The degree of scatter in these data may be attributed to the wide migratory movements of the hybrid bass, which expose them to all areas of the lake. In addition, the PCB concentrations in hybrid bass are generally lower at SV-107 than other stations. This may be due to the use of the Keowee River by hybrid bass in this area.

The annual trends in mean PCB concentrations in catfish fillets (see Figure 10) were similar to those in largemouth bass, with lower concentrations detected with increasing distance from Twelvemile Creek. The concentration of PCBs, however, was highest at SV-107, as in most past sampling events. In addition, the 2.0 ppm level was not exceeded in any of the fish samples in any of the stations except SV-107 (2.27 ppm). The concentrations detected at SV-106 tend to indicate a slight increase over the 1995 to 1997 period. However, the 1999 data indicate a general trend of PCB reductions in catfish fillets lake-wide.

A total of five sampling surveys have been conducted from 1995 through 1999 with the collection of consistent sizes and species of fish. With these data, the concentration of PCBs in the forage fish species was plotted (Figures 11, 12, and 13 for bluegill, threadfin shad, and gizzard shad, respectively). These data, collected over a limited period of time, do not indicate definitive trends in the reduction of PCBs in forage fish with the possible exception of gizzard shad (Figure 13). The gizzard shad data indicate an apparent steady decrease in PCBs with increasing distance downstream from Twelvemile Creek. In general, the decrease in PCB concentrations with increasing distance from Twelvemile Creek is also observed in the bluegill and threadfin shad. From 1997 to 1999 the concentration of PCBs in bluegill and threadfin shad indicated more

erratic concentrations over time. Additional data are necessary to identify definitive trends.

4.1

SEDIMENTS

In the case of lower Twelvemile Creek below the small reservoirs a comparison of the 1999 results to the historic values discussed in the 1993 RI Report, show the concentrations of PCBs decreased significantly in the upper Twelvemile Creek area, particularly Town Creek, indicating a flushing of this area. Concentrations detected in other portions of Twelvemile Creek and in tributaries below Town Creek were significantly lower than the historic values. In the lower Twelvemile Creek area, PCB concentrations generally range from less than 0.137 to 5.78 ppm. Those values were similar to historic findings or lower than historic findings and, in some cases, significantly lower.

The Upper Twelvemile Creek Arm includes approximately the upper four miles of impounded waters of Lake Hartwell. This is one of the most heavily sampled areas of the lake to date. The concentration of the five surface sediment composite samples of this area ranged from less than 1.40 ppm to 5.78 ppm. These values were much less than those reported by the State and EPA from 1976 through 1985, which ranged from 1.7 ppm to 48.0 ppm, and those reported by ERM in 1995, which ranged from 0.943 ppm to 8.46 ppm. Germann (1988) indicated PCB surface sediment concentrations ranging from 5 to 50 ppm for this area. The 1999 data indicate that the PCB concentrations in surficial sediments of the Upper Twelvemile Creek Arm were reduced from historic levels and are approximately half of the 1997 values.

The Middle Twelvemile Creek Arm extends from Maw Bridge to the Highway 133. Two samples were collected in the area during the 1999 survey with PCB concentrations of 3.93 and 3.21 ppm detected. Historic PCB concentrations have ranged from 0.84 to 64.3 ppm (1986 through 1988). The RI/FS sampling of 1991 indicated concentrations ranging from 0.16 to 6.48 ppm in 45 samples. A review of the 1991 data indicates that the 1999 concentrations in this area are less than historic 1995 high values of 10.7 ppm and 16.0 ppm as well as lower than the 1997 values of 4.12 and 6.51 ppm.

The lower Twelvemile Creek Arm area (Highway 133 to Highway 123, a reach of approximately 3.5 miles) typically has the highest concentrations of PCBs. The one sample with the highest concentration (Station SD-013, 5.78 ppm) was lower than the concentrations detected in 1995, 1996, and

1997 (8.26 to 23.3 ppm). Historic concentrations at this location have ranged from 0.39 to 55.62 ppm with maximums of 12.03 ppm and 55.62 ppm detected in 1977 and 1985, respectively. The 1991 Phase I and II data present concentrations ranging from 0.16 to 11.51 ppm, indicating a similar phenomenon of downstream migration and settling, as observed in the Middle Twelvemile Creek Arm.

The Seneca River Arm/Upper Hartwell Lake area (Highway 123 to Highway 37, a distance of approximately 3.05 miles) was sampled in 1998 at two locations, one near the upper end (SD-014) and one at the lower end of this reach (SD-015). Concentrations of 1.40 ppm and 2.99 ppm, respectively, were recorded at these locations. Historic sampling indicates that concentrations have ranged from 0.01 to 14.26 ppm, while Phase I and II sampling indicate concentration ranges from 0.04 to 5.26 ppm. The PCB concentrations in this area of the lake appear to have steadily decreased since the beginning of the sampling program. In general, the surficial sediment PCB and TOC data indicate both the origin of the recently deposited sediment, and deposition patterns in the impounded portion of Twelvemile Creek Arm of Lake Hartwell. The data indicate that PCB concentrations in surficial sediment were higher in 1999 than in 1998. The highest concentration of PCBs was detected at SD-013 (5.78 ppm). This station is historically in the area with the highest deposition rates, due to its location at the head of the impounded portion of the Twelvemile Creek Arm of Lake Hartwell. Consequently, this area has historically received the highest PCB loads associated with contaminated sediments from the watershed. Historical (prior to 1990) PCB levels there were likely due to previous releases upstream. Recent surficial deposits in this area are likely to be due to residual PCBs in the sediments recently released from Woodside I and II in October 1998, combined with PCBs released during Spring 1999 flood events from the free-flowing segments of Twelvemile Creek upstream of the reservoirs. The last flushing of Woodside I and II occurred in 1991. At that time, significant deposits of sediment were allowed to remain in the bottom of the reservoirs (see photographs in 1993 Feasibility Study). These deposits, some of which were released in October 1998, contained residual PCBs from upstream releases. Further, during the remediation of OU-1, some bank deposits of PCB-containing sediments were allowed to remain because no feasible method was available to remove the deposits. The combined result of these two types of releases is that the elevated levels of PCBs in the surficial sediments sampled in 1999 are an artifact reflecting the presence of remnant quantities of PCBs upstream that cannot be removed, the transport of these deposits, and transient events in PCB release mechanisms. Such episodic PCB releases are likely to result in long-term average decreases in PCB concentrations in sediments and biota as historical residual upstream PCBs are flushed out over time.

4.2

CORBICULA

Results of the *Corbicula* study indicate a pattern of reduction in PCB concentrations from 1995 through 1999. One clear pattern is the detection of PCB at concentrations above background at four locations (C-1, C-3, C-5, and C-6) and at low to insignificant concentrations at background locations (C-0, C-2, and C-4). While the concentration at most locations was greater in 1999 than in 1998, the 1999 values are generally less than the maximum values of 1995 or 1996. Background concentrations indicate that PCBs are slightly accumulated upstream from plant site in both Twelvemile and Town Creeks.

Corbicula from Wolf Creek were used as reference organisms, where a background PCB concentration of 0.066 ppm in *Corbicula* tissue was measured. The concentration of PCBs ranged from 0.153 ppm at the control site in Town Creek (C-0), upstream of the OU-1 site, to 6.41 ppm in Twelvemile Creek at Maw Bridge. The concentration of PCBs in *Corbicula*, located downstream of the plant site outfall in Town Creek, was 3.39 ppm.

Corbicula have been analyzed for four consecutive years. The trends indicated by these data are: 1) generally low background concentrations of PCBs in the upstream locations in Town, Wolf, and Twelvemile Creeks, 2) relatively similar levels of bioaccumulation at stations downstream of the facility (C-1, C-3, C-5, and C-6), and 3) generally higher concentrations in 1999 than in 1998. These results suggest that there are remaining deposits of PCBs and that these deposits were eroded or released at a greater rate in 1999 vs. 1998.

4.3

FISH

The 1999 OU2 Fish Study results indicate that the PCB concentrations were generally lower with increased distance from the Twelvemile Arm of Lake Hartwell for largemouth bass, channel catfish and forage fish. PCB concentrations appear to have generally decreased with time. The concentrations detected in hybrid bass were also lower in the three stations, which were the greatest distance from Twelvemile Creek (SV-535, SV-642, and SV-641), as well as SV-107. Forage fish also appear to have localized levels of contamination similar to largemouth bass and channel catfish with the highest PCB concentrations in forage fish detected in the Twelvemile Creek Arm and significantly lower levels detected at stations downstream of Twelvemile Creek. The 1999 fish results indicate a reduction in the PCB concentrations in largemouth bass and channel catfish at most stations from the period 1990 through 1999. Samples at

SV-532, SV-535, SV-641, and SV-642 indicated mean PCB concentrations in largemouth bass and catfish less than 2.0 ppm for this period. Samples at SV-106 were also less than 2.0 ppm for channel catfish. The PCB concentration in catfish at SV-107 was above 2.0 ppm during the 1999 survey. The PCB concentrations in hybrid bass exceeded the 2.0 ppm FDA limit at three stations in 1999. The PCB concentrations in hybrid bass are lower at the three stations farthest from Twelvemile Creek as well as SV-107. The gizzard shad are beginning to indicate a pattern of both spatial and temporal decreases in PCB concentrations. The 1999 bluegill values were generally higher than the 1998 values, which may contribute to the higher PCB concentrations in largemouth bass at SV-107, but were generally lower than the 1996 and 1995 values. PCBs in threadfin shad indicate no definitive trends.

4.4

LONG-TERM MONITORING DESIGN FOR TREND ANALYSIS

Although this report discusses observations on apparent "trends" in various data sets, and makes observational comparisons of differences from one year's samples to the next, such conclusions about apparent trends are not rigorous because the data have not been subjected to any formal statistical analysis. The monitoring program implemented since 1995 was designed to assemble 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods that would take full advantage of the statistical power of the full data ensemble. Less rigorous analyses such as *t*-test comparisons between samples from adjacent years are not appropriate because of the inherent variability of the data, and the fact that the number of replicate samples is too small for such pairwise testing. Statistical analyses to discriminate trends in the sediment and fish data should be done only on a segment of data collected after the effects of transient events like the flushing of the hydroelectric reservoirs have damped out of the time series record.

Samples of fish and *Corbicula* tissue and sediment were analyzed for PCBs from the OU2 study area. The analytical method used was EPA SW-846, Method 8082. Fish and sediment samples were collected from April 20 to May 13, 1999, while *Corbicula* were collected on May 26, 1999. Northeast Analytical, Inc (NEA) from May 18 to June 8, 1999, performed analyses of fish and sediment while *Corbicula* were analyzed on June 17, 1999 by NEA. Quality assurance samples were collected in the field and submitted for analysis. Quality assurance samples included field prepared sediment duplicates at a rate of one per ten samples collected. Equipment rinsate, and field blanks were collected for both fish and sediment samples at a rate of one per 20 samples collected. Duplicates of fish tissue and *Corbicula* were split in the laboratory. All samples were delivered overnight to the laboratory under chain of custody. All chain of custody records were found to be complete. Sample preservation requirements for PCB analysis (temperature less than or equal to 4°C) were maintained. During this sampling event, fish tissue, sediment, and water samples were kept on ice prior to transport.

EPA and SCDHEC require that PCB samples are extracted within 14 days following collection and analyzed within 40 days following extraction. No samples exceeded the allowable holding time. However, several sediment samples were contaminated during extraction at the laboratory, and these samples were extracted again one day past the holding time and then re-analyzed. The case narrative describing this occurrence is included in Appendix D.

The seven Aroclors specified under Method 8082 were reported for each sample analyzed. The practical quantitation limit (PQL) was specified for each Aroclor and sample combination. The PQLs ranged from 0.050 to 0.515 ppm for fish tissue, 0.060 to 0.466 ppm for sediments, and 0.052 and 0.272 for *Corbicula*. The PQLs specified above are within the same range as the estimated quantitation limit (EQL) for high concentration soils and sludges referenced in Method 8082.

QA/QC analytical results are included in Appendix D. PCBs were not present in any of the equipment rinsates or trip blanks at a PQL of 0.050 to 0.057 ppb. This range of PQL is less than the Method 8082 EQL of 0.065 ppb. This indicates the presence of PCBs was not due to equipment contamination.

Two sediment, one *Corbicula*, and nine fish tissue samples were submitted in duplicate for analysis. The results indicated good precision for the combined sample collection and analysis procedure. There is no guideline for an acceptable level of precision for the combined sample collection and analysis of duplicate samples for PCBs. The relative precision, however, of most duplicate samples tested was less than 37% and generally less than 20%, which indicates good precision. The exceptions include: fish sample SV532-23, with a sample value of 1.25 ppm and duplicate value of 0.540 ppm, fish sample SV532-13, with a sample value of 0.318 ppm and duplicate value of 0.589 ppm, and fish sample SV107-19, with a reported percent difference of 53.5% between the sample and the duplicate.

Another exception was sediment sample SD008, in which the sample value was 3.35 ppm and the duplicate value was 2.04 ppm.

Laboratory duplicates (duplicates of the samples) were prepared and analyzed for five samples. The percent differences for total PCBs ranged between 7.63% and 36.5% with two exceptions. Fish sample SV535-11 and the corresponding duplicate had values with a percent difference of 52.2%, and fish sample SV641-11 and the corresponding duplicate had values with a percent difference of 54.1%. The agreement between these values overall is acceptable and is indicative of good precision in the data with the exception of the above-mentioned samples.

Laboratory quality control procedures included the addition of surrogate standards prior to analysis, the analysis of a duplicate and matrix spike on selected samples, and the analysis of method blanks. In accordance with Method 8082 procedures, two surrogate standards (tetrachloromethaxylene and dichlorobiphenol) were incorporated into all samples analyzed. The percent recovery of these surrogates was the limits set by the method. The recovery limits set by method 8082 range from 60% to 130%.

Laboratory matrix spike samples and duplicates of the matrix spikes (MSD) were prepared and analyzed from seven samples. The percent recoveries for total PCBs ranged between 92.4% and 108%. These recoveries are most favorable as compared to the recoveries referenced in Method 8082 and are indicative of good accuracy in the data.

Laboratory control spikes were prepared and analyzed from seven samples. The percent recoveries for the Laboratory control spikes ranged from 97.1% to 106%. The agreement between the amount spiked and amount recovered for the samples was within acceptable recovery rates. The recovery rates are indicative of good precision in the data.

A total of seven laboratory method blanks were analyzed. PCBs were not detected in any method blank. The maximum PQLs for the method blanks were all 0.052-0.053 µg/g for solid samples.

Table 1 Lake Hartwell OU2 Sediment Sampling Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date Sampled	Aroclor Identification- ug/g					Total PCB - $\mu\text{g/g}$	TOC mg/kg
		1016	1221	1232	1242	1248		
SD000	4/28/1999 < 0 065	< 0 065	< 0 065	< 0 065	< 0 065	< 0 065	< 0 065	0 3,300
SD001	4/28/1999 < 0 062	< 0 062	< 0 062	2 18	< 0 062	< 0 062	2 18	6,900
SD002	4/28/1999 < 0 065	< 0 065	< 0 065	0 112	< 0 065	0 292	< 0 065	0 404 3,700
SD003	4/28/1999 < 0 060	< 0 060	< 0 060	< 0 060	< 0 060	< 0 060	< 0 060	0 3,200
SD004	4/28/1999 < 0 178	< 0 178	< 0 178	0 343	< 0 178	0 818	< 0 178	1 16 16,000
SD005	4/28/1999 < 0 061	< 0 061	< 0 061	0 061	< 0 061	0 076	< 0 061	0 137 2,100
SD006	4/28/1999 < 0 067	< 0 067	< 0 067	0 120	< 0 067	0 188	< 0 067	0 308 2,600
SD007	5/12/1999 < 0 110	< 0 110	< 0 110	1 05	< 0 110	1 23	< 0 110	2 28 26,000
SD008	5/12/1999 < 0 120	< 0 120	< 0 120	1 57	< 0 120	1 78	< 0 120	3 35 24,000
Dup 1 (008)	5/12/1999 < 0 124	< 0 124	< 0 124	1 03	< 0 124	1 01	< 0 124	2 04 29,000
SD009	5/12/1999 < 0 089	< 0 089	< 0 089	1 64	< 0 089	1 57	< 0 089	3 21 22,000
SD010	4/29/1999 < 0 210	< 0 210	< 0 210	1 30	< 0 210	1 76	< 0 210	3 06 24,000
SD011	4/29/1999 < 0 350	< 0 350	< 0 350	2 46	< 0 350	1 47	< 0 350	3 93 25,000
SD012	4/29/1999 < 0 112	< 0 112	< 0 112	1 04	< 0 112	1 15	< 0 112	2 19 15,000
Dup 2 (012)	4/29/1999 < 0 111	< 0 111	< 0 111	1 00	< 0 111	1 20	< 0 111	2 20 15,000
SD013	4/29/1999 < 0 466	< 0 466	< 0 466	3 59	< 0 466	2 19	< 0 466	5 78 29,000
SD014	4/29/1999 < 0 094	< 0 094	< 0 094	0 815	< 0 094	0 582	< 0 940	1 40 17,000
SD015	4/29/1999 < 0 229	< 0 229	< 0 229	1 65	< 0 229	1 34	< 0 229	2 99 28,000
SD106	4/29/1999 < 0 233	< 0 233	< 0 233	1 93	< 0 233	1 53	< 0 233	3 46 31,000
SD532	4/29/1999 < 0 139	< 0 139	< 0 139	0 179	< 0 139	0 226	< 0 139	0 405 37,000
SD535	5/11/1999 < 0 204	< 0 204	< 0 204	< 0 204	0 837	< 0 204	< 0 204	0 837 39,000
SD641	5/13/1999 < 0 146	< 0 146	< 0 146	1 88	< 0 146	0 146	< 0 146	1 88 24,000
SD642	5/11/1999 < 0 204	< 0 204	< 0 204	0 984	< 0 204	< 0 204	< 0 204	0 984 36,000

TOC Total Organic Carbon

Table 2 Lake Hartwell OU-2 Study 1999 Corbicula Tissue Analysis
RMT, Inc., Stafford, Texas

Station No.	Aroclor Identification and PCB Concentration ($\mu\text{g/g}$)						Total	
	1016	1221	1232	1242	1248	1254	1260	
C-0 Town Creek upstream of Sangamo Weston	< 0.055	< 0.055	< 0.055	< 0.055	0.136	0.110	< 0.055	0.246
C-1 Town Creek downstream of Sangamo Weston	< 0.253	< 0.253	< 0.253	3.390	< 0.253	< 0.253	< 0.253	3.39
C-2 Twelvemile Creek upstream on Town Creek	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	0.153	< 0.054	0.153
C-3 Twelvemile Creek at Algood Bridge	< 0.272	< 0.272	< 0.272	< 0.272	4.19	1.42	< 0.272	5.61
C-4 Wolf Creek	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	0.066	< 0.054	0.066
C-5 Twelvemile Creek at 137 Bridge	< 0.052	< 0.052	< 0.052	< 0.052	1.68	0.972	< 0.052	2.65
C-5 Duplicate	< 0.052	< 0.052	< 0.052	< 0.052	1.95	1.27	< 0.052	3.22
C-6 Twelvemile Creek at Maw Bridge (Hwy 337)	< 0.101	3.06	< 0.101	1.95	< 0.101	1.40	< 0.101	6.41

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (ppm)
SV-107-01	4/20/1999	LMB -1	360	625	f	3.65
SV-107-02	4/20/1999	LMB -2	365	650	m	11.0
SV-107-03	4/20/1999	LMB -3	358	615	m	11.3
SV-107-04	4/20/1999	LMB -4	353	625	m	15.6
SV-107-05	4/20/1999	LMB -5	380	760	f	4.57
SV-107-06	4/20/1999	LMB -6	458	1300	f	11.6
SV-107-07	4/20/1999	LMB -7	388	820	f	5.91
SV-107-08	4/20/1999	LMB -8	360	625	m	6.74
SV-107-09	4/20/1999	LMB -9	390	965	m	17.7
SV-107-10	4/20/1999	LMB -10	385	830	m	23.9
SV-107-11	4/20/1999	HB -1	520	2100	m	4.54
SV-107-12	4/20/1999	CC -1	495	1300	f	3.63
SV-107-13	4/21/1999	CC -2	415	675	m	1.91
SV-107-14	4/21/1999	CC -3	415	600	m	2.02
SV-107-15	4/21/1999	CC -4	410	575	m	1.52
SV-107-16	4/21/1999	HB -2	485	1700	m	4.16
SV-107-17	4/28/1999	HB -3	460	1550	f	3.92
SV-107-18	4/28/1999	HB -4	480	1450	m	2.71
SV-107-19	4/28/1999	HB -5	560	2250	f	1.19
SV-107-20	4/28/1999	HB -6	400	1100	f	1.47
SV-107-21	4/29/1999	HB -7	450	1450	f	0.806
SV-107-22	4/29/1999	HB -8	470	1600	f	0.688
SV-107-23	4/29/1999	HB -9	460	1500	f	0.78
SV-107-24	4/29/1999	HB -10	470	1600	f	0.481
SV-107-25	4/20/1999	GS	270 - 320	300 - 420	u	4.49
SV-107-26	4/20/1999	BG	123 - 190	700 t	u	2.19
SV-107-27	4/20/1999	TS	88 - 120	700 t	u	5.01

LMB - Largemouth Bass

WB - White Bass

HB - Hybrid Bass

f - Female

CC - Channel Catfish

m - Male

TS - Threadfin Shad

u - Unknown

GS - Gizzard Shad

a - Combined Average

BG - Bluegill

t - Combined Total

SB - Stripped Bass

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (µg/g)
SV-106-01	4/20/1999	HB -1	450	1500	f	2 52
SV-106-02	4/20/1999	HB -2	520	2050	f	9 40
SV-106-03	4/20/1999	HB -3	440	1420	f	5 84
SV-106-04	4/20/1999	HB -4	435	1300	f	3 13
SV-106-05	4/20/1999	HB -5	475	1650	f	4 95
SV-106-06	4/20/1999	HB -6	530	2100	f	5 57
SV-106-07	4/20/1999	HB -7	460	1410	f	0 384
SV-106-08	4/20/1999	HB -8	450	1325	f	1 34
SV-106-09	4/20/1999	HB -9	455	1520	f	6 29
SV-106-10	4/20/1999	CC -1	400	550	f	1 10
SV-106-11	4/21/1999	HB -10	535	2400	f	4 15
SV-106-12	4/21/1999	CC -2	390	850	m	1 23
SV-106-13	4/21/1999	LMB -1	390	975	m	1 00
SV-106-14	4/21/1999	LMB -2	350	625	m	2 94
SV-106-15	4/21/1999	LMB -3	365	650	m	1 62
SV-106-16	4/21/1999	LMB -4	355	625	m	2 55
SV-106-17	4/21/1999	LMB -5	335	550	m	3 70
SV-106-18	4/21/1999	LMB -6	370	650	f	4 12
SV-106-19	4/21/1999	LMB -7	360	675	m	1 26
SV-106-20	4/21/1999	LMB -8	345	600	m	2 69
SV-106-21	4/21/1999	LMB -9	360	600	f	0 933
SV-106-22	4/22/1999	LMB -10	350	625	m	3 73
SV-106-23	4/28/1999	CC -3	430	770	f	2 21
SV-106-24	4/29/1999	CC -4	440	900	f	1 06

LMB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB ($\mu\text{g/g}$)
SV-532-01	4/20/1999	HB -1	485	1650	f	2.81
SV-532-02	4/20/1999	HB -2	440	1300	f	6.63
SV-532-03	4/20/1999	HB -3	500	1750	m	2.54
SV-532-04	4/20/1999	HB -4	600	2600	f	5.02
SV-532-05	4/20/1999	HB -5	460	1260	f	2.99
SV-532-06	4/20/1999	LMB -1	410	1100	m	4.39
SV-532-07	4/20/1999	CC -1	530	1450	f	0.494
SV-532-08	4/22/1999	HB -6	510	1900	f	7.41
SV-532-09	4/22/1999	HB -7	470	2500	f	2.55
SV-532-10	4/22/1999	HB -8	480	1650	f	1.41
SV-532-11	4/22/1999	HB -9	460	1550	f	3.71
SV-532-12	4/22/1999	HB -10	480	1525	m	1.67
SV-532-13	4/22/1999	CC -2	505	1250	m	0.318
SV-532-13 Dup	4/22/1999	CC -2	505	1250	m	0.589
SV-532-14	4/22/1999	GS	270 - 315	250 - 400	u	2.40
SV-532-15	4/22/1999	LMB -2	470	1350	m	2.04
SV-532-16	4/22/1999	LMB -3	365	700	m	1.57
SV-532-17	4/22/1999	LMB -4	430	1100	f	0.494
SV-532-18	4/22/1999	LMB -5	380	900	m	2.63
SV-532-19	4/22/1999	LMB -6	400	800	f	0.829
SV-532-20	4/22/1999	LMB -7	420	950	f	0.67
SV-532-21	4/21/1999	LMB -8	370	700	f	1.25
SV-532-22	4/21/1999	LMB -9	380	775	f	1.54
SV-532-23	4/21/1999	LMB -10	380	700	f	1.25
SV-532-24	4/21/1999	BG	105 - 185	575 t	u	1.13
SV-532-25	4/21/1999	TS	58 - 128	71 t	u	0.742
SV-532-26	5/12/1999	CC -3	520	1950	m	1.75
SV-532-27	5/12/1999	CC -4	510	1650	m	0.977

LMB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB ($\mu\text{g/g}$)
SV-535-01	4/21/1999	LMB -1	415	1000	f	0 682
SV-535-02	4/21/1999	LMB -2	420	900	f	0 282
SV-535-03	4/21/1999	LMB -3	380	750	f	0 63
SV-535-04	4/21/1999	LMB -4	370	700	m	1 10
SV-535-05	4/21/1999	LMB -5	350	650	m	0 818
SV-535-06	4/21/1999	LMB -6	430	900	f	0 462
SV-535-07	4/21/1999	LMB -7	400	775	m	1 37
SV-535-08	4/21/1999	LMB -8	370	700	f	0 412
SV-535-09	4/21/1999	LMB -9	380	750	m	0 976
SV-535-10	4/21/1999	LMB -10	370	650	f	0 255
SV-535-11	4/22/1999	HB -1	550	2550	f	2 10
SV-535-12	4/22/1999	HB -2	540	2250	f	1 35
SV-535-13	4/22/1999	HB -3	460	1300	f	0 974
SV-535-14	4/22/1999	HB -4	465	1350	m	1 19
SV-535-15	4/22/1999	HB -5	490	1400	m	0 515
SV-535-16	4/22/1999	CC -1	370	500	m	0 101
SV-535-17	4/22/1999	CC -2	510	1350	f	0 276
SV-535-18	4/22/1999	CC -3	485	1200	f	0 659
SV-535-20	4/23/1999	HB -6	550	2500	f	1 36
SV-535-21	4/23/1999	HB -7	450	1300	m	0 675
SV-535-22	4/29/1999	HB -8	600	2600	f	1 05
SV-535-23	5/11/1999	HB -9	470	1400	f	0 516
SV-535-24	5/11/1999	HB -10	470	1300	f	1 28
SV-535-25	5/13/1999	CC -4	440	850	f	0 348

LMB - Largemouth Bass

WB - White Bass

HB - Hybrid Bass

f - Female

CC - Channel Catfish

m - Male

TS - Threadfin Shad

u - Unknown

GS - Gizzard Shad

a - Combined Average

BG - Bluegill

t - Combined Total

SB - Stripped Bass

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB ($\mu\text{g/g}$)
SV-641-01	4/22/1999	LMB -1	470	1400	f	> 0 055
SV-641-02	4/22/1999	LMB -2	341	600	f	0 192
SV-641-03	4/22/1999	LMB -3	380	650	f	> 0 054
SV-641-04	4/22/1999	LMB -4	390	650	m	0 077
SV-641-05	4/22/1999	LMB -5	450	1350	f	> 0 051
SV-641-06	4/22/1999	LMB -6	380	750	f	> 0 052
SV-641-07	4/22/1999	LMB -7	390	750	m	0 076
SV-641-08	4/22/1999	LMB -8	370	650	m	0 059
SV-641-09	4/22/1999	LMB -9	348	500	m	0 061
SV-641-10	4/22/1999	LMB -10	391	800	m	0 143
SV-641-11	4/22/1999	CC -1	420	600	f	0 054
SV-641-12	4/23/1999	HB -1	550	2200	f	1 62
SV-641-13	4/23/1999	HB -2	530	2150	f	7 37
SV-641-14	4/23/1999	HB -3	460	1400	f	0 411
SV-641-15	4/23/1999	HB -4	450	1350	f	0 65
SV-641-16	4/23/1999	HB -5	460	1350	m	1 200
SV-641-17	4/23/1999	HB -6	460	1400	m	0 735
SV-641-18	4/23/1999	HB -7	450	1550	f	1 48
SV-641-19	4/23/1999	HB -8	455	1225	f	0 799
SV-641-20	4/23/1999	HB -9	440	1225	m	1 24
SV-641-21	4/23/1999	HB -10	430	1200	m	1 19
SV-641-22	4/23/1999	CC -2	480	1320	f	0 198
SV-641-23	4/23/1999	CC -3	400	600	m	> 0 055
SV-641-24	4/23/1999	GS	235 -300	175 - 300	u	0 242
SV-641-25	4/29/1999	CC -4	420	770	m	> 0 054
SV-641-26	4/23/1999	TS	60 - 85	40 5 t	u	> 0 052
SV-641-27	4/23/1999	BG	110 - 170	1200 t	u	0 064

LMB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB ($\mu\text{g/g}$)
SV-642-01	4/22/1999	LMB -1	390	850	m	0 313
SV-642-02	4/22/1999	LMB -2	370	750	m	0 337
SV-642-03	4/22/1999	LMB -3	440	1350	f	0 326
SV-642-04	4/22/1999	LMB -4	420	950	m	0 378
SV-642-05	4/22/1999	LMB -5	390	750	m	0 404
SV-642-06	4/22/1999	LMB -6	410	900	f	0 222
SV-642-07	4/22/1999	LMB -7	360	700	f	0 099
SV-642-08	4/22/1999	LMB -8	380	750	f	0 066
SV-642-09	4/22/1999	LMB -9	360	600	f	0 198
SV-642-10	4/22/1999	LMB -10	375	750	m	0 314
SV-642-11	4/23/1999	HB -1	440	1350	f	0 726
SV-642-12	4/23/1999	CC -1	430	820	m	0 598
SV-642-13	4/23/1999	CC -2	390	570	m	0 116
SV-642-14	4/23/1999	CC -3	380	550	f	0 295
SV-642-15	4/23/1999	CC -4	430	780	f	0 518
SV-642-16	4/28/1999	HB -2	460	1300	f	0 511
SV-642-17	4/29/1999	HB -3	450	1320	f	0 957
SV-642-18	4/29/1999	HB -4	440	1200	m	0 355
SV-642-19	5/11/1999	HB -5	450	1400	f	0 256
SV-642-20	5/11/1999	HB -6	460	1350	f	0 758
SV-642-21	5/11/1999	SB -7	480	1550	m	1 08
SV-642-22	5/12/1999	HB -8	450	1300	m	4 73
SV-642-23	5/12/1999	HB -9	440	1150	f	> 0 053
SV-642-24	5/12/1999	HB -10	480	1600	f	0 468

LMB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g				Total PCB - ug/g
			1016	1221	1232	1242	
SV-107-01	LMB -1	4/20/1999	> 0.103	> 0.103	> 0.103	> 0.103	3.15
SV-107-02	LMB -2	4/20/1999	> 0.312	> 0.312	> 0.312	> 0.312	9.59
SV-107-03	LMB -3	4/20/1999	> 0.366	> 0.366	> 0.366	> 0.366	10.0
SV-107-04	LMB -4	4/20/1999	> 0.514	> 0.514	> 0.514	> 0.514	13.9
SV-107-05	LMB -5	4/20/1999	> 0.103	> 0.103	> 0.103	> 0.103	3.87
SV-107-06	LMB -6	4/20/1999	> 0.309	> 0.309	> 0.309	> 0.309	9.90
SV-107-07	LMB -7	4/20/1999	> 0.157	> 0.157	> 0.157	> 0.157	4.97
SV-107-08	LMB -8	4/20/1999	> 0.208	> 0.208	> 0.208	> 0.208	5.67
SV-107-09	LMB -9	4/20/1999	> 0.510	> 0.510	> 0.510	> 0.510	15.8
SV-107-10	LMB -10	4/20/1999	> 0.515	> 0.515	> 0.515	> 0.515	21.2
SV-107-11	HB -1	4/20/1999	> 0.157	> 0.157	> 0.157	> 0.157	3.84
SV-107-12	CC -1	4/20/1999	> 0.105	> 0.105	> 0.105	> 0.105	3.01
SV-107-13	CC -2	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	1.68
SV-107-14	CC -3	4/21/1999	> 0.050	> 0.050	> 0.050	> 0.050	1.63
SV-107-15	CC -4	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	1.27
SV-107-16	HB -2	4/21/1999	> 0.155	> 0.155	> 0.155	> 0.155	3.49
SV-107-17	HB -3	4/28/1999	> 0.162	> 0.162	> 0.162	> 0.162	3.40
SV-107-18	HB -4	4/28/1999	> 0.107	> 0.107	> 0.107	> 0.107	2.31
SV-107-19	HB -5	4/28/1999	> 0.054	> 0.054	> 0.054	> 0.054	0.950
SV-107-20	HB -6	4/28/1999	> 0.051	> 0.051	> 0.051	> 0.051	1.23
SV-107-21	HB -7	4/29/1999	> 0.055	> 0.055	> 0.055	> 0.055	0.655
SV-107-22	HB -8	4/29/1999	> 0.051	> 0.051	> 0.051	> 0.051	0.547
SV-107-23	HB -9	4/29/1999	> 0.054	> 0.054	> 0.054	> 0.054	0.573
SV-107-24	HB -10	4/29/1999	> 0.054	> 0.054	> 0.054	> 0.054	0.384
SV-107-25	GS	4/20/1999	> 0.154	> 0.154	> 0.154	> 0.154	3.82
SV-107-26	BG	4/20/1999	> 0.051	> 0.051	> 0.051	> 0.051	1.89
SV-107-27	TS	4/20/1999	> 0.207	> 0.207	> 0.207	> 0.207	4.46

LMB - Large Mouth Bass

HB - Hybrnd Bass

CC - Catfish

GS - Cisard Shad

BG - Blue Gill

TS - Thread Fin Shad

ND - Non Detectable

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Species & Number	Date Sampled	Aroclor Identification- $\mu\text{g}/\text{g}$				Total PCB - $\mu\text{g}/\text{g}$
			1016	1221	1232	1242	
SV-106-01	HB -1	4/20/1999	> 0.076	> 0.076	> 0.076	> 0.076	0.448
SV-106-02	HB -2	4/20/1999	> 0.306	> 0.306	> 0.306	> 0.306	2.52
SV-106-03	HB -3	4/20/1999	> 0.204	> 0.204	> 0.204	> 0.204	9.40
SV-106-04	HB -4	4/20/1999	> 0.105	> 0.105	> 0.105	> 0.105	5.84
SV-106-05	HB -5	4/20/1999	> 0.153	> 0.153	> 0.153	> 0.153	3.13
SV-106-06	HB -6	4/20/1999	> 0.206	> 0.206	> 0.206	> 0.206	4.95
SV-106-07	HB -7	4/20/1999	> 0.051	> 0.051	> 0.051	> 0.051	5.57
SV-106-08	HB -8	4/20/1999	> 0.050	> 0.050	> 0.050	> 0.050	0.384
SV-106-09	HB -9	4/20/1999	> 0.204	> 0.204	> 0.204	> 0.204	6.29
SV-106-10	CC -1	4/20/1999	> 0.052	> 0.052	> 0.052	> 0.052	0.097
SV-106-11	HB -10	4/21/1999	> 0.154	> 0.154	> 0.154	> 0.154	4.15
SV-106-12	CC -2	4/21/1999	> 0.050	> 0.050	> 0.050	> 0.050	1.23
SV-106-13	LMB -1	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	1.01
SV-106-14	LMB -2	4/21/1999	> 0.102	> 0.102	> 0.102	> 0.102	2.94
SV-106-15	LMB -3	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	1.62
SV-106-16	LMB -4	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	2.55
SV-106-17	LMB -5	4/21/1999	> 0.103	> 0.103	> 0.103	> 0.103	3.70
SV-106-18	LMB -6	4/21/1999	> 0.103	> 0.103	> 0.103	> 0.103	4.12
SV-106-19	LMB -7	4/21/1999	> 0.050	> 0.050	> 0.050	> 0.050	1.26
SV-106-20	LMB -8	4/21/1999	> 0.100	> 0.100	> 0.100	> 0.100	2.69
SV-106-21	LMB -9	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	0.933
SV-106-22	LMB -10	4/22/1999	> 0.101	> 0.101	> 0.101	> 0.101	3.73
SV-106-23	CC -3	4/28/1999	> 0.055	> 0.055	> 0.055	> 0.055	2.21
SV-106-24	CC -4	4/29/1999	> 0.052	> 0.052	> 0.052	> 0.052	1.06

LMB - Large Mouth Bass
HB - Hybrid Bass
CC - Catfish
GS - Gisard Shad
BG - Blue Gill
TS - Thread Fin Shad
ND - Non Detectable

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Species & Number	Date Sampled	1016	1221	1232	1242	1248	1254	1260	Total PCB - $\mu\text{g/g}$
SV-532-01	HB -1	4/20/1999	>0 101	>0 101	>0 101	>0 101	>0 101	2 40	0 414	2 81
SV-532-02	HB -2	4/20/1999	>0 205	>0 205	>0 205	>0 205	>0 205	5 780	0 850	6 63
SV-532-03	HB -3	4/20/1999	>0 103	>0 103	>0 103	>0 103	>0 103	2 07	0 471	2 54
SV-532-04	HB -4	4/20/1999	>0 155	>0 155	>0 155	>0 155	>0 155	4 09	0 929	5 02
SV-532-05	HB -5	4/20/1999	>0 104	>0 104	>0 104	>0 104	>0 104	2 56	0 432	2 99
SV-532-06	LMB -1	4/20/1999	>0 156	>0 156	>0 156	>0 156	>0 156	3 57	0 817	4 39
SV-532-07	CC -1	4/20/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 400	0 094	0 494
SV-532-08	HB -6	4/22/1999	>0 256	>0 256	>0 256	>0 256	>0 256	6 28	1 13	7 41
SV-532-09	HB -7	4/22/1999	>0 104	>0 104	>0 104	>0 104	>0 104	2 18	0 371	2 55
SV-532-10	HB -8	4/22/1999	>0 050	>0 050	>0 050	>0 050	>0 050	1 12	0 289	1 41
SV-532-11	HB -9	4/22/1999	>0 102	>0 102	>0 102	>0 102	>0 102	3 12	0 586	3 71
SV-532-12	HB -10	4/22/1999	>0 052	>0 052	>0 052	>0 052	>0 052	1 41	0 263	1 67
SV-532-13	CC -2	4/22/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 258	0 060	0 318
SV-532-13(Dup)	CC -2	4/22/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 484	0 105	0 589
SV-532-14	GS	4/22/1999	>0 101	>0 101	>0 101	>0 101	>0 101	1 98	0 418	2 40
SV-532-15	LMB -2	4/22/1999	>0 053	>0 053	>0 053	>0 053	>0 053	1 50	0 535	2 04
SV-532-16	LMB -3	4/22/1999	>0 050	>0 050	>0 050	>0 050	>0 050	1 22	0 348	1 57
SV-532-17	LMB -4	4/22/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 314	0 180	0 494
SV-532-18	LMB -5	4/22/1999	>0 105	>0 105	>0 105	>0 105	>0 105	2 18	0 449	2 63
SV-532-19	LMB -6	4/22/1999	>0 052	>0 052	>0 052	>0 052	>0 052	0 623	0 206	0 829
SV-532-20	LMB -7	4/22/1999	>0 053	>0 053	>0 053	>0 053	>0 053	0 522	0 148	0 67
SV-532-21	LMB -8	4/21/1999	>0 052	>0 052	>0 052	>0 052	>0 052	1 06	0 185	1 25
SV-532-22	LMB -9	4/21/1999	>0 051	>0 051	>0 051	>0 051	>0 051	1 28	0 257	1 54
SV-532-23	LMB -10	4/21/1999	>0 052	>0 052	>0 052	>0 052	>0 052	0 967	0 280	1 25
SV-532-24	BG	4/21/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 941	0 192	1 13
SV-532-25	TS	4/21/1999	>0 051	>0 051	>0 051	>0 051	>0 051	0 605	0 137	0 742
SV-532-26	CC -3	5/12/1999	>0 105	>0 105	>0 105	>0 105	>0 105	1 47	0 282	1 75
SV-532-27	CC -4	5/12/1999	>0 054	>0 054	>0 054	>0 054	>0 054	0 764	0 213	0 977

LMB - Large Mouth Bass
 HB - Hybrid Bass
 CC - Catfish
 GS - Gisard Shad
 BG - Blue Gill
 TS - Thread Fin Shad
 ND - Non Detectable

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Species & Number	Date Sampled	1016	1221	1232	1242	1248	1254	1260	Total PCB - $\mu\text{g/g}$
SV-535-01	LMB-1	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.470	0.212	0.682
SV-535-02	LMB-2	4/21/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.205	0.077	0.282
SV-535-03	LMB-3	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.406	0.224	0.63
SV-535-04	LMB-4	4/21/1999	> 0.050	> 0.050	> 0.050	> 0.050	> 0.050	0.766	0.330	1.10
SV-535-05	LMB-5	4/21/1999	> 0.050	> 0.050	> 0.050	> 0.050	> 0.050	0.571	0.247	0.818
SV-535-06	LMB-6	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.289	0.173	0.462
SV-535-07	LMB-7	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.944	0.429	1.37
SV-535-08	LMB-8	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.260	0.152	0.412
SV-535-09	LMB-9	4/21/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.647	0.329	0.976
SV-535-10	LMB-10	4/21/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.166	0.089	0.255
SV-535-11	HB-1	4/22/1999	> 0.101	> 0.101	> 0.101	> 0.101	> 0.101	1.67	0.430	2.10
SV-535-12	HB-2	4/22/1999	> 0.104	> 0.104	> 0.104	> 0.104	> 0.104	1.08	0.269	1.35
SV-535-13	HB-3	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.794	0.180	0.974
SV-535-14	HB-4	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.940	0.252	1.19
SV-535-15	HB-5	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.409	0.106	0.515
SV-535-16	CC-1	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.101	ND	0.101
SV-535-17	CC-2	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.217	0.059	0.276
SV-535-18	CC-3	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.533	0.126	0.659
SV-535-20	HB-6	4/23/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	1.07	0.289	1.36
SV-535-21	HB-7	4/23/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.542	0.133	0.675
SV-535-22	HB-8	4/29/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.83	0.222	1.05
SV-535-23	HB-9	5/11/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.417	0.099	0.516
SV-535-24	HB-10	5/11/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	1.03	0.247	1.28
SV-535-25	CC-4	5/13/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.296	0.052	0.348

LMB - Large Mouth Bass
 HB - Hybrid Bass
 CC - Catfish
 GS - Gisard Shad
 BG - Blue Gill
 TS - Thread Fin Shad
 ND - Non Detectable

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

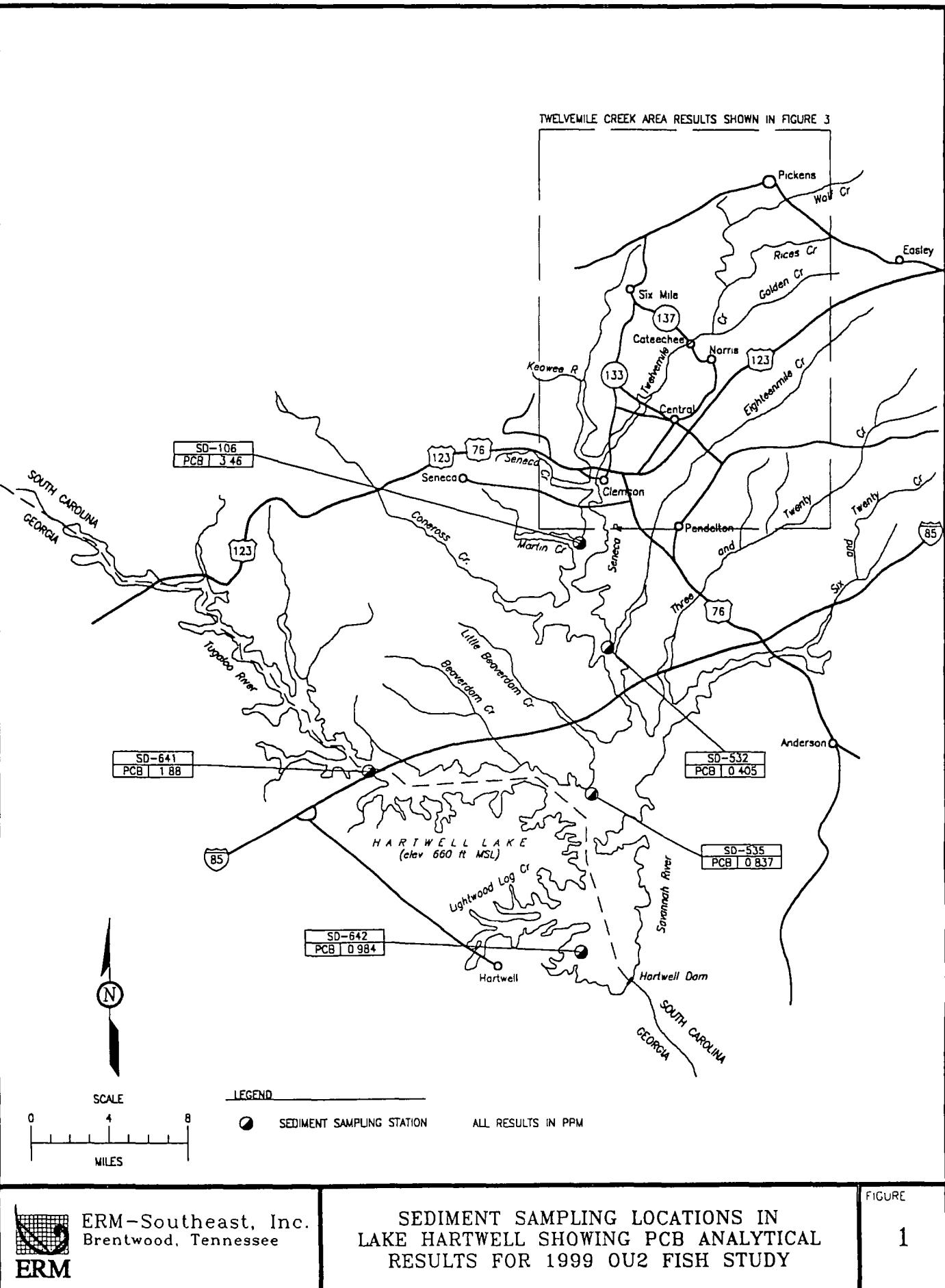
Sample Number	Species & Number	Date Sampled	1016	1221	1232	1242	1248	1254	1260	Total PCB - $\mu\text{g/g}$
SV-641-01	LMB -1	4/22/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055
SV-641-02	LMB -2	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.109	0.083	0.192
SV-641-03	LMB -3	4/22/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054
SV-641-04	LMB -4	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.077	> 0.052	0.077
SV-641-05	LMB -5	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051
SV-641-06	LMB -6	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052
SV-641-07	LMB -7	4/22/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.076	> 0.054	0.076
SV-641-08	LMB -8	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.059	> 0.051	0.059
SV-641-09	LMB -9	4/22/1999	> 0.050	> 0.050	> 0.050	> 0.050	> 0.050	0.061	> 0.050	0.061
SV-641-10	LMB -10	4/22/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.081	0.062	0.143
SV-641-11	CC -1	4/22/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.054	> 0.053	0.054
SV-641-12	HB -1	4/23/1999	> 0.107	> 0.107	> 0.107	> 0.107	> 0.107	1.31	0.308	1.62
SV-641-13	HB -2	4/23/1999	> 0.270	> 0.270	> 0.270	> 0.270	> 0.270	6.26	1.11	7.37
SV-641-14	HB -3	4/23/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.289	0.122	0.411
SV-641-15	HB -4	4/23/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.481	0.169	0.650
SV-641-16	HB -5	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.960	0.240	1.200
SV-641-17	HB -6	4/23/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.566	0.169	0.735
SV-641-18	HB -7	4/23/1999	> 0.109	> 0.109	> 0.109	> 0.109	> 0.109	1.27	0.210	1.48
SV-641-19	HB -8	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.643	0.156	0.799
SV-641-20	HB -9	4/23/1999	> 0.103	> 0.103	> 0.103	> 0.103	> 0.103	0.942	0.295	1.24
SV-641-21	HB -10	4/23/1999	> 0.103	> 0.103	> 0.103	> 0.103	> 0.103	0.993	0.194	1.19
SV-641-22	CC -2	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.139	0.059	0.198
SV-641-23	CC -3	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055
SV-641-24	GS	4/23/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.163	0.079	0.242
SV-641-25	CC -4	4/29/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054
SV-641-26	TS	4/23/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052
SV-641-27	BG	4/23/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.064	> 0.053	0.064

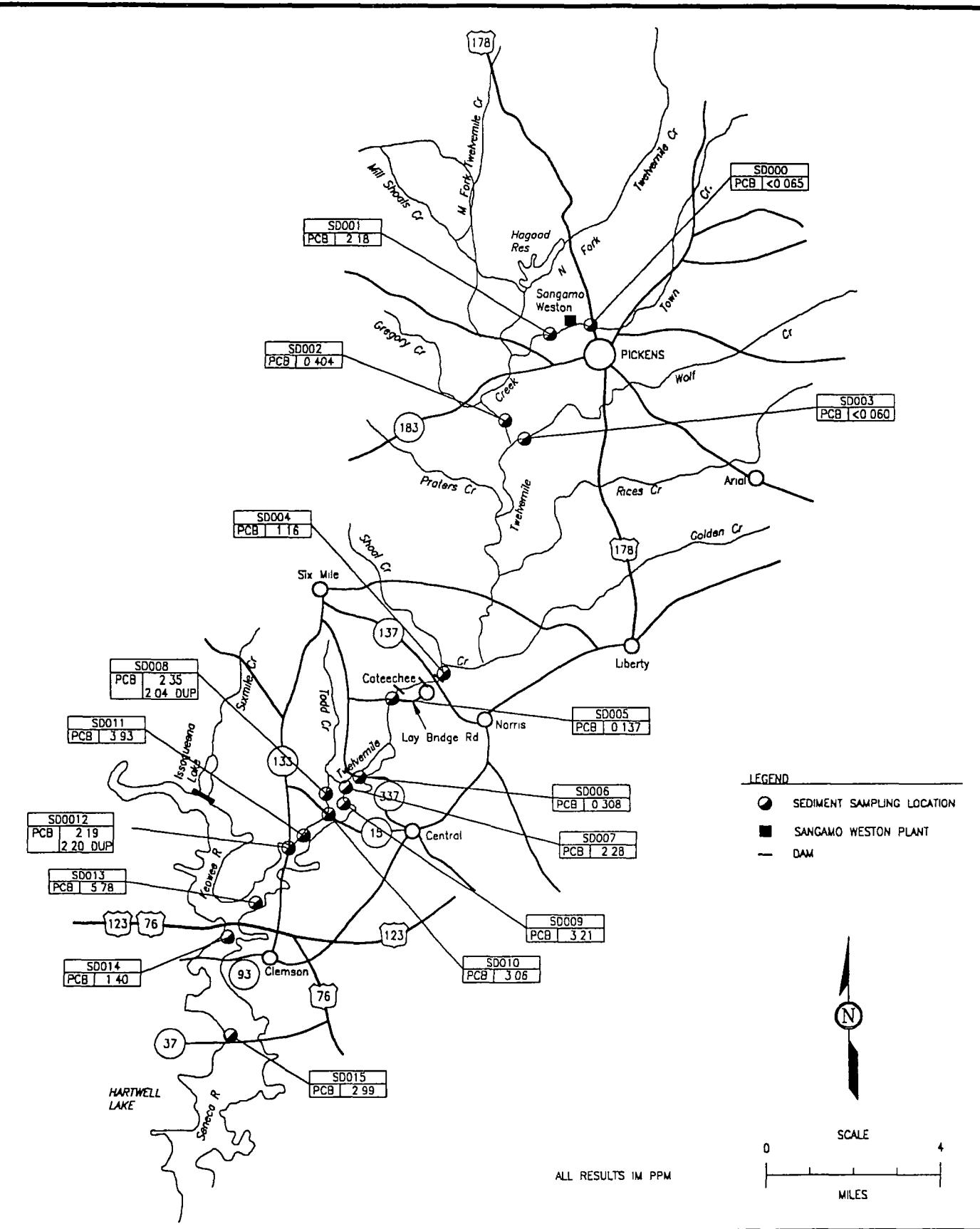
LMB - Large Mouth Bass
 HB - Hybrid Bass
 CC - Catfish
 GS - Gizzard Shad
 BG - Blue Gill
 TS - Thread Fin Shad
 ND - Non Detectable

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 1999
RMT, Inc., Stafford, Texas

Sample Number	Species & Number	Date Sampled	1016	1221	1232	1242	1248	1254	1260	Total PCB - $\mu\text{g/g}$
SV-642-01	LMB -1	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.231	0.082	0.313
SV-642-02	LMB -2	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.251	0.086	0.337
SV-642-03	LMB -3	4/22/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.197	0.129	0.326
SV-642-04	LMB -4	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.255	0.123	0.378
SV-642-05	LMB -5	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.282	0.122	0.404
SV-642-06	LMB -6	4/22/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.150	0.072	0.222
SV-642-07	LMB -7	4/22/1999	> 0.050	> 0.050	> 0.050	> 0.050	> 0.050	0.099	ND	0.099
SV-642-08	LMB -8	4/22/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.066	ND	0.066
SV-642-09	LMB -9	4/22/1999	> 0.054	> 0.054	> 0.054	> 0.054	> 0.054	0.140	0.058	0.198
SV-642-10	LMB -10	4/22/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.226	0.088	0.314
SV-642-11	HB -1	4/23/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.546	0.180	0.726
SV-642-12	CC -1	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.491	0.107	0.598
SV-642-13	CC -2	4/23/1999	> 0.050	> 0.050	> 0.050	> 0.050	> 0.050	0.116	ND	0.116
SV-642-14	CC -3	4/23/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.240	0.055	0.295
SV-642-15	CC -4	4/23/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	0.438	0.080	0.518
SV-642-16	HB -2	4/28/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.375	0.136	0.511
SV-642-17	HB -3	4/29/1999	> 0.055	> 0.055	> 0.055	> 0.055	> 0.055	0.807	0.150	0.957
SV-642-18	HB -4	4/29/1999	> 0.052	> 0.052	> 0.052	> 0.052	> 0.052	0.260	0.095	0.355
SV-642-19	HB -5	5/11/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.201	0.055	0.256
SV-642-20	HB -6	5/11/1999	> 0.110	> 0.110	> 0.110	> 0.110	> 0.110	0.621	0.137	0.758
SV-642-21	SB -7	5/11/1999	> 0.101	> 0.101	> 0.101	> 0.101	> 0.101	0.831	0.247	1.08
SV-642-22	HB -8	5/12/1999	> 0.314	> 0.314	> 0.314	> 0.314	> 0.314	4.01	0.724	4.73
SV-642-23	HB -9	5/12/1999	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053	> 0.053
SV-642-24	HB -10	5/12/1999	> 0.051	> 0.051	> 0.051	> 0.051	> 0.051	0.381	0.087	0.468

LMB - Large Mouth Bass
 HB - Hybrid Bass
 CC - Catfish
 GS - Gisard Shad
 BG - Blue Gill
 TS - Thread Fin Shad
 ND - Non Detectable





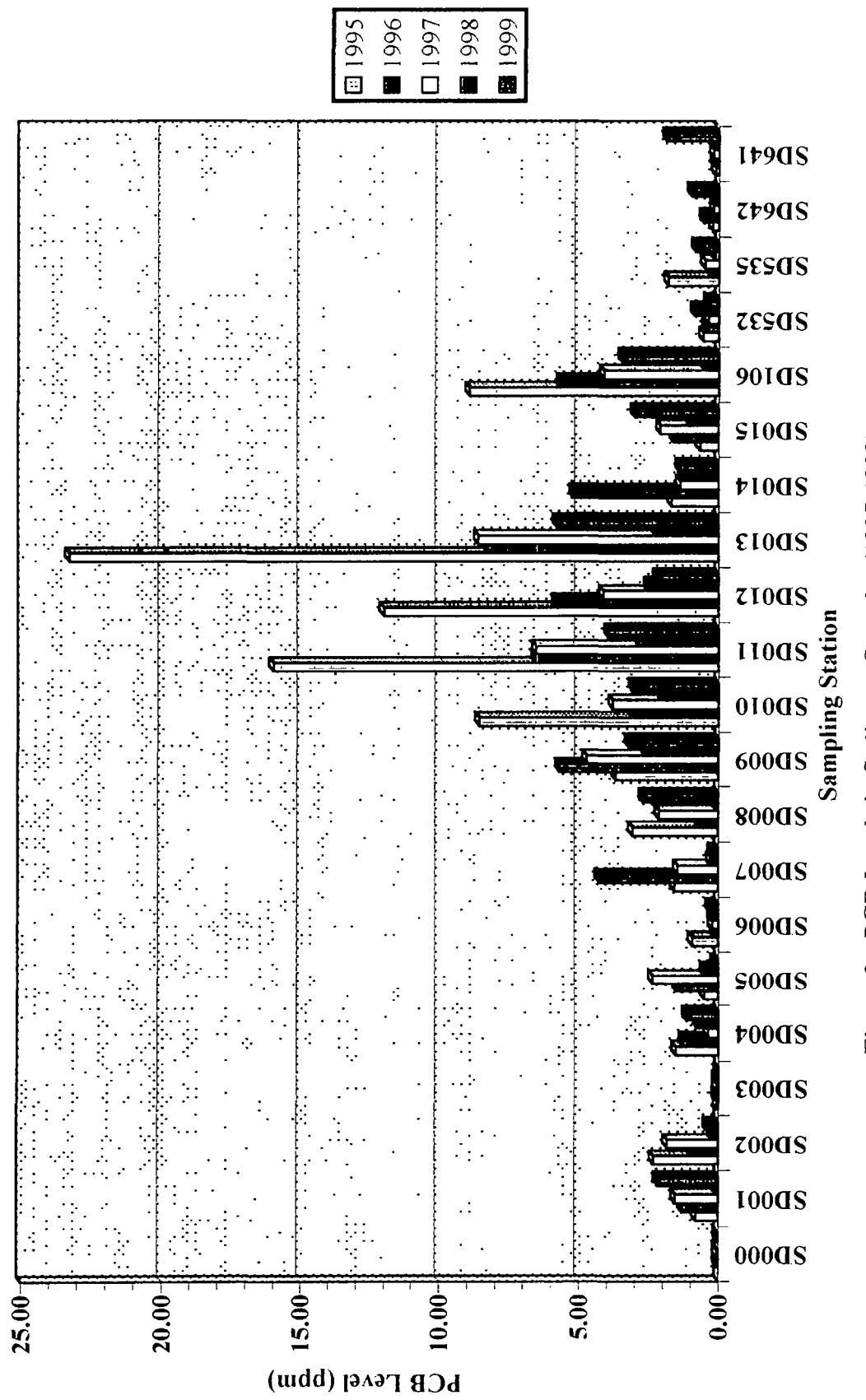


Figure 3 - PCB Levels in Sediment Samples (1995-1999),
Lake Hartwell OU2 Fish Study

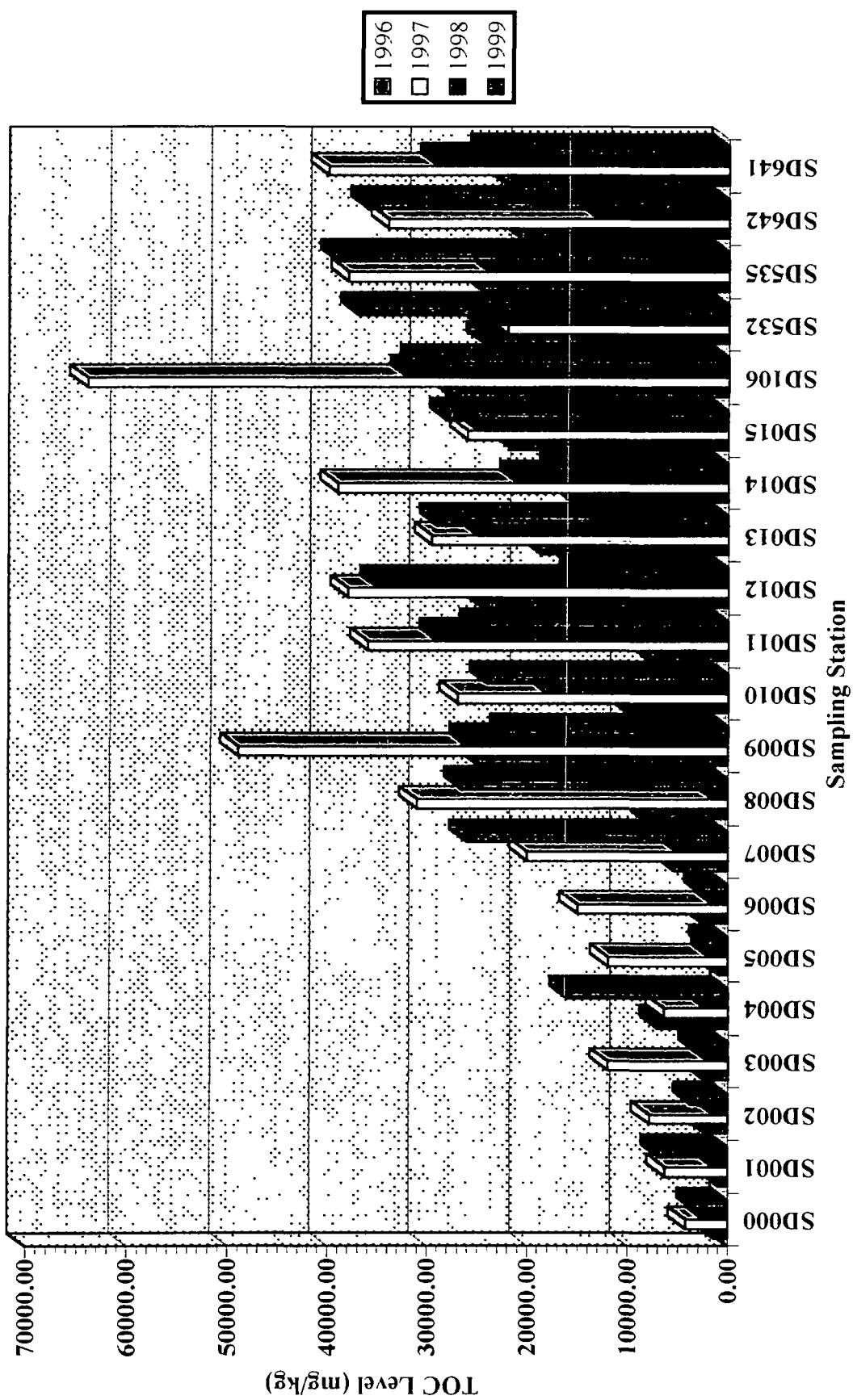
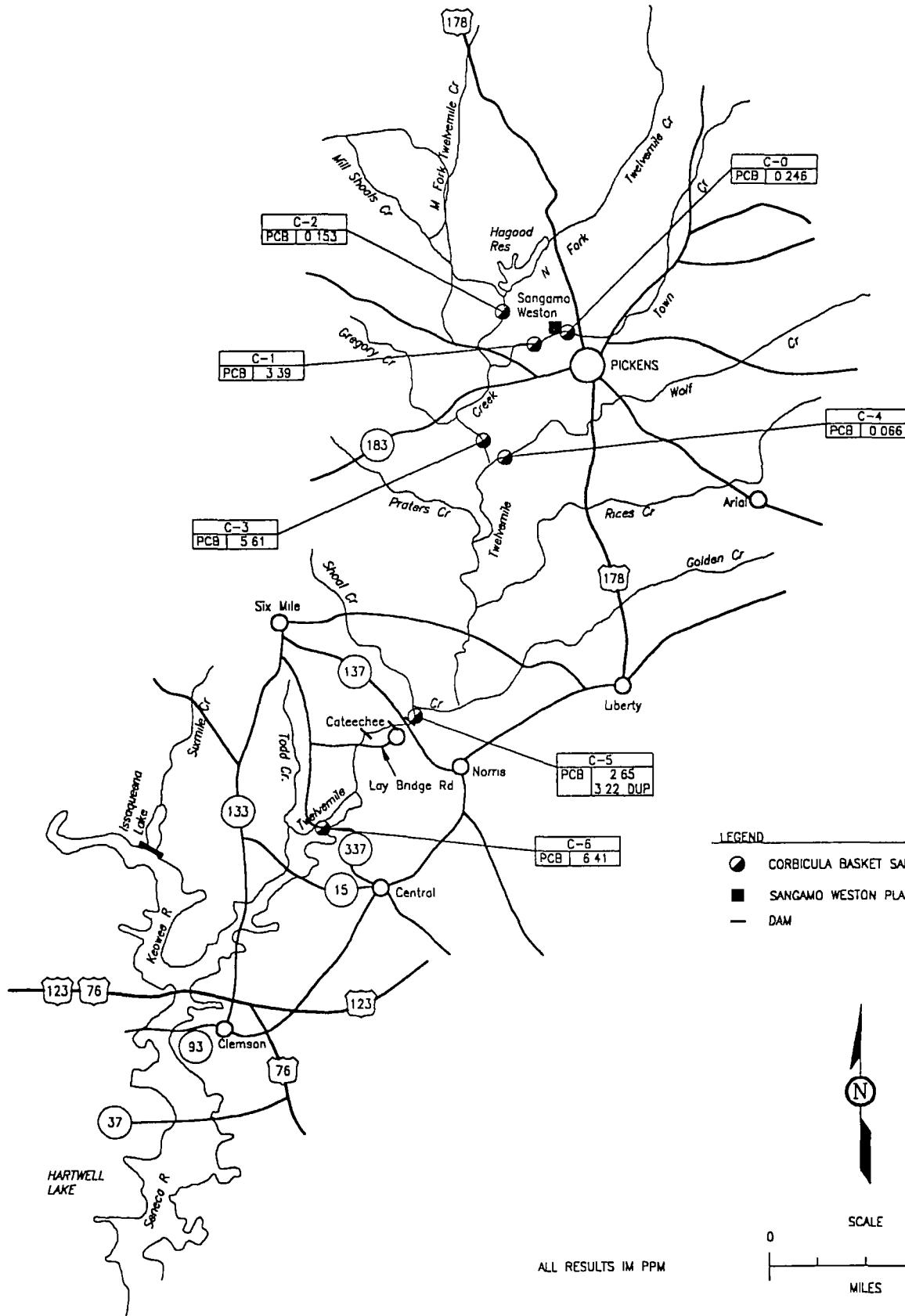


Figure 4 - TOC Levels in Sediment Samples (1996-1999)
Lake Hartwell OU2 Fish Study



ALL RESULTS IN PPM

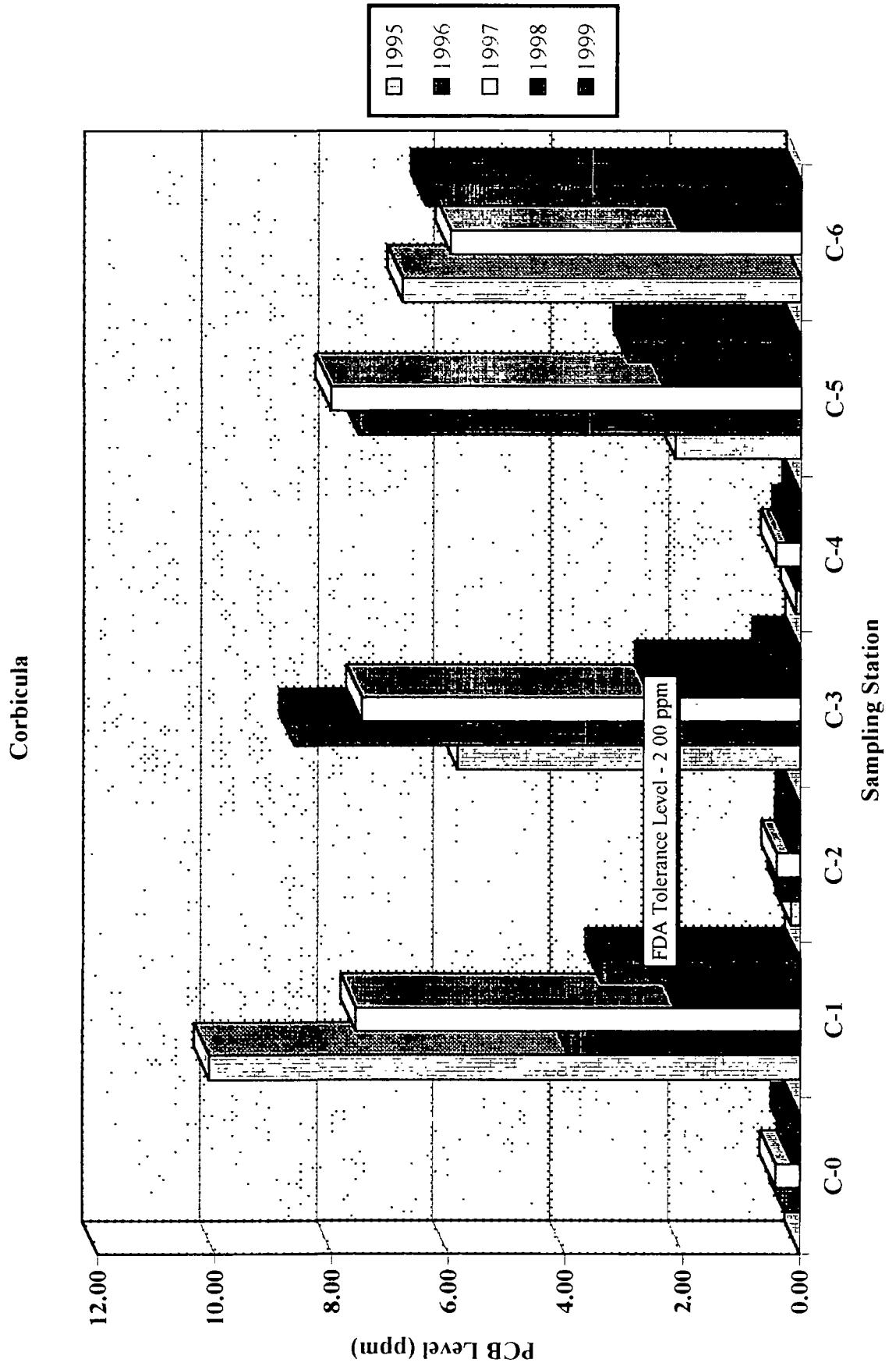
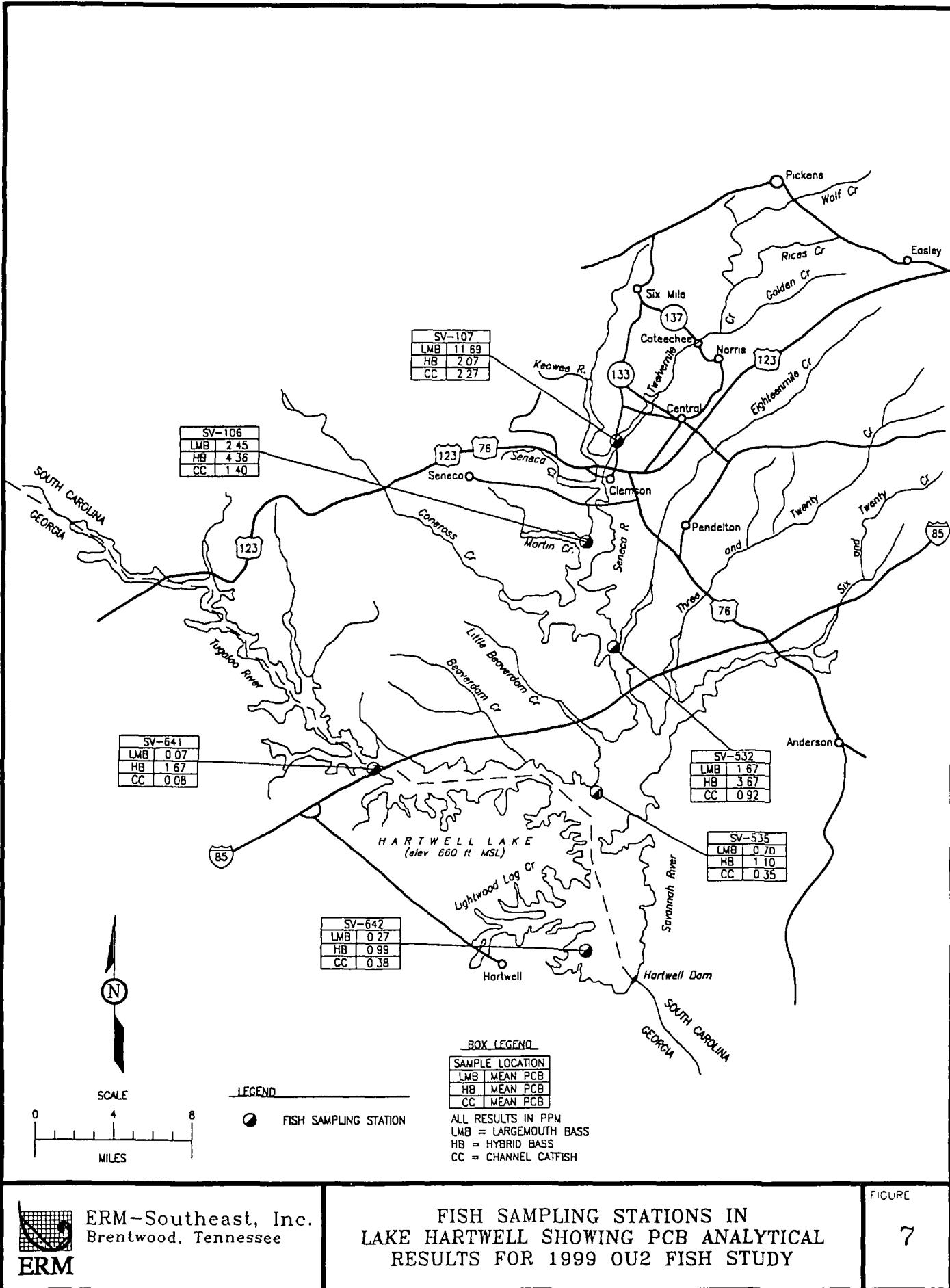


Figure 6 - PCB Levels in Corbicula Composite Samples (1995-1999),
Lake Hartwell OU2 Fish Study



Largemouth Bass

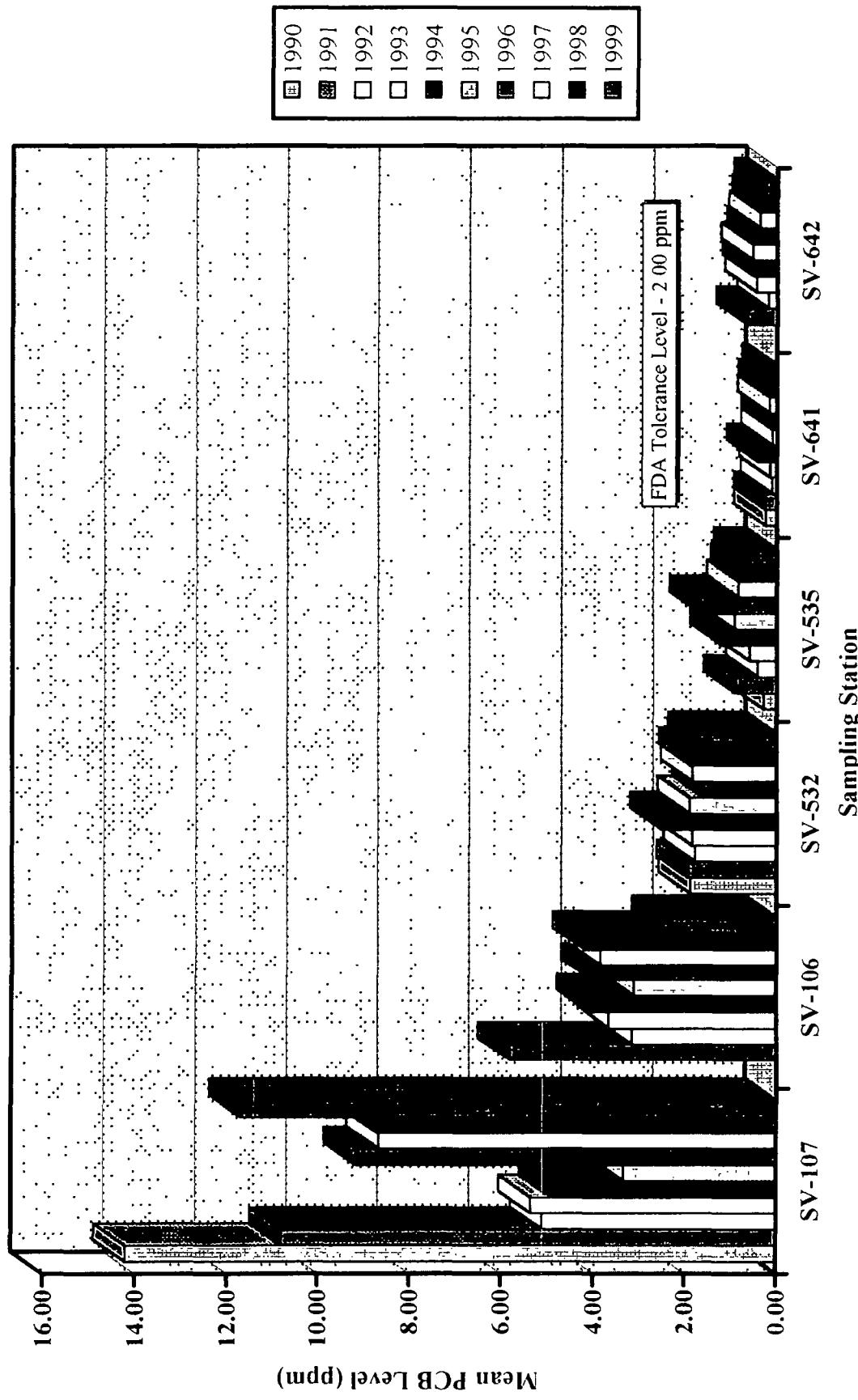
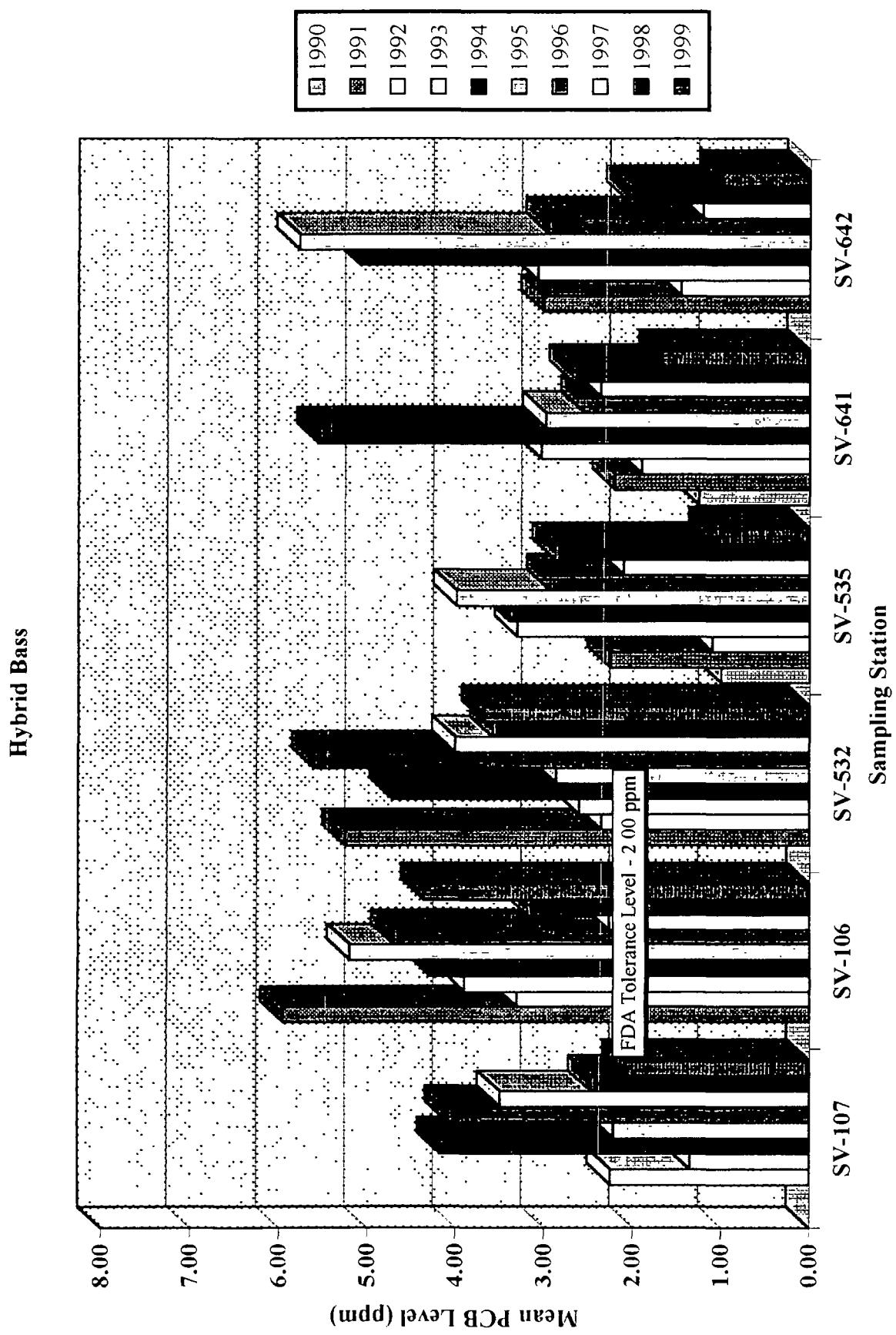


Figure 8 - PCB Levels in Largemouth Bass Fillet Samples (1990-1999),
Lake Hartwell OU2 Fish Study



**Figure 9 - PCB Levels in Hybrid Bass Fillet Samples (1990-1999),
Lake Hartwell OU2 Fish Study**

Channel Catfish

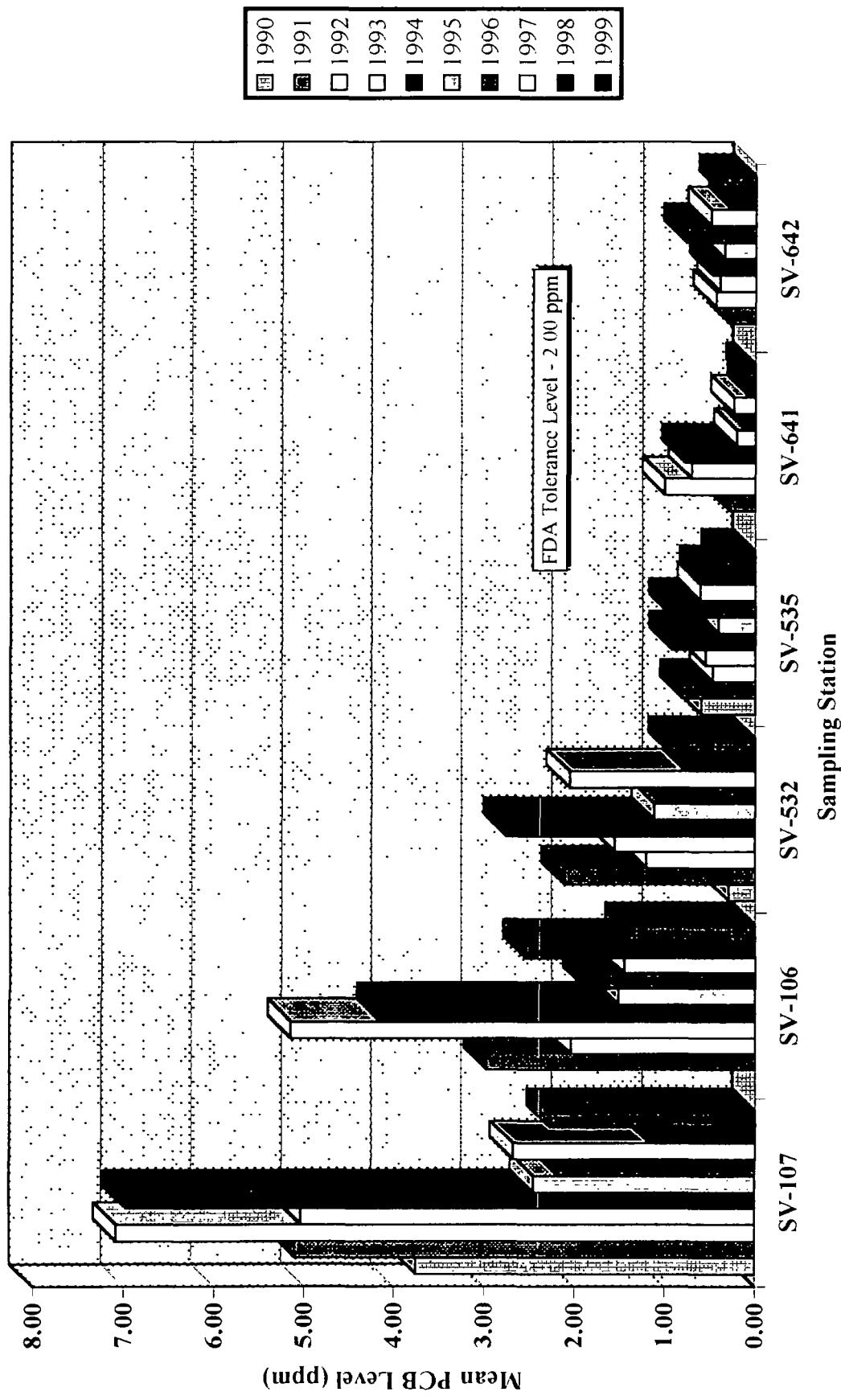


Figure 10 - PCB Levels in Channel Catfish Fillet Samples (1990-1999),
Lake Hartwell OU2 Fish Study

Bluegill

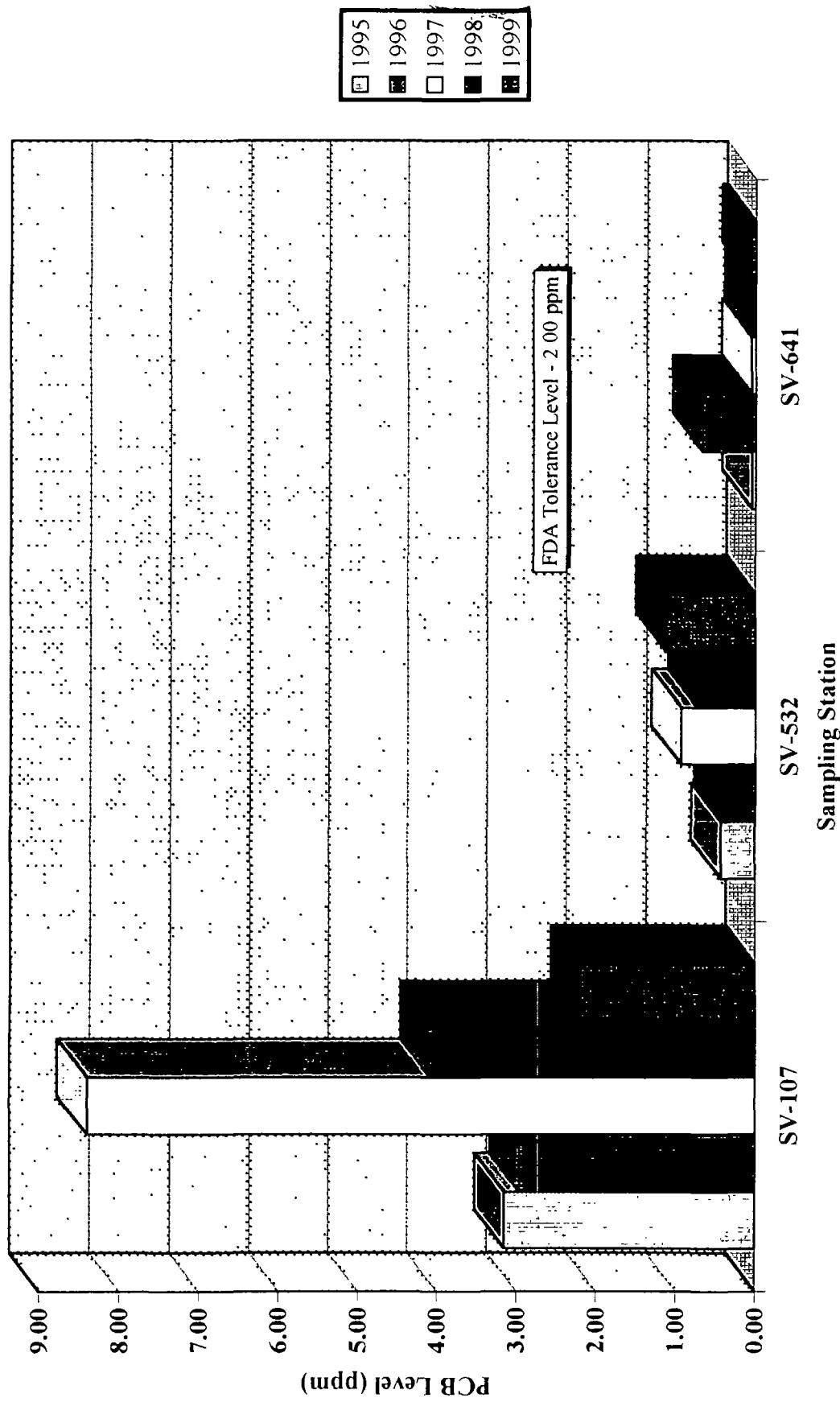


Figure 11 - PCB Levels in Bluegill Composite Samples (1995-1999),
Lake Hartwell OU2 Fish Study

Threadfin Shad

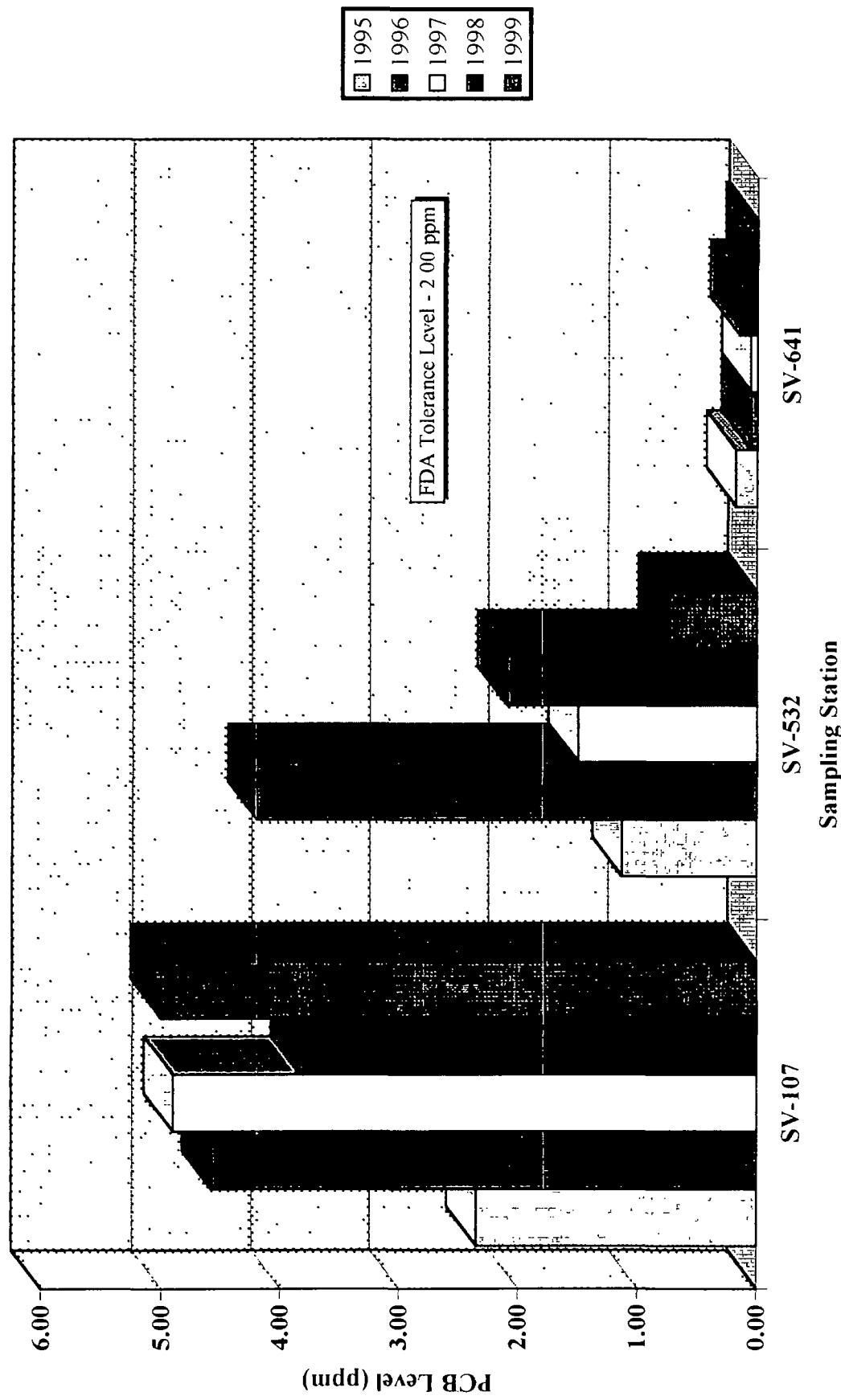


Figure 12 - PCB Levels in Threadfin Shad Composite Samples (1995-1999),
Lake Hartwell OU2 Fish Study

Gizzard Shad

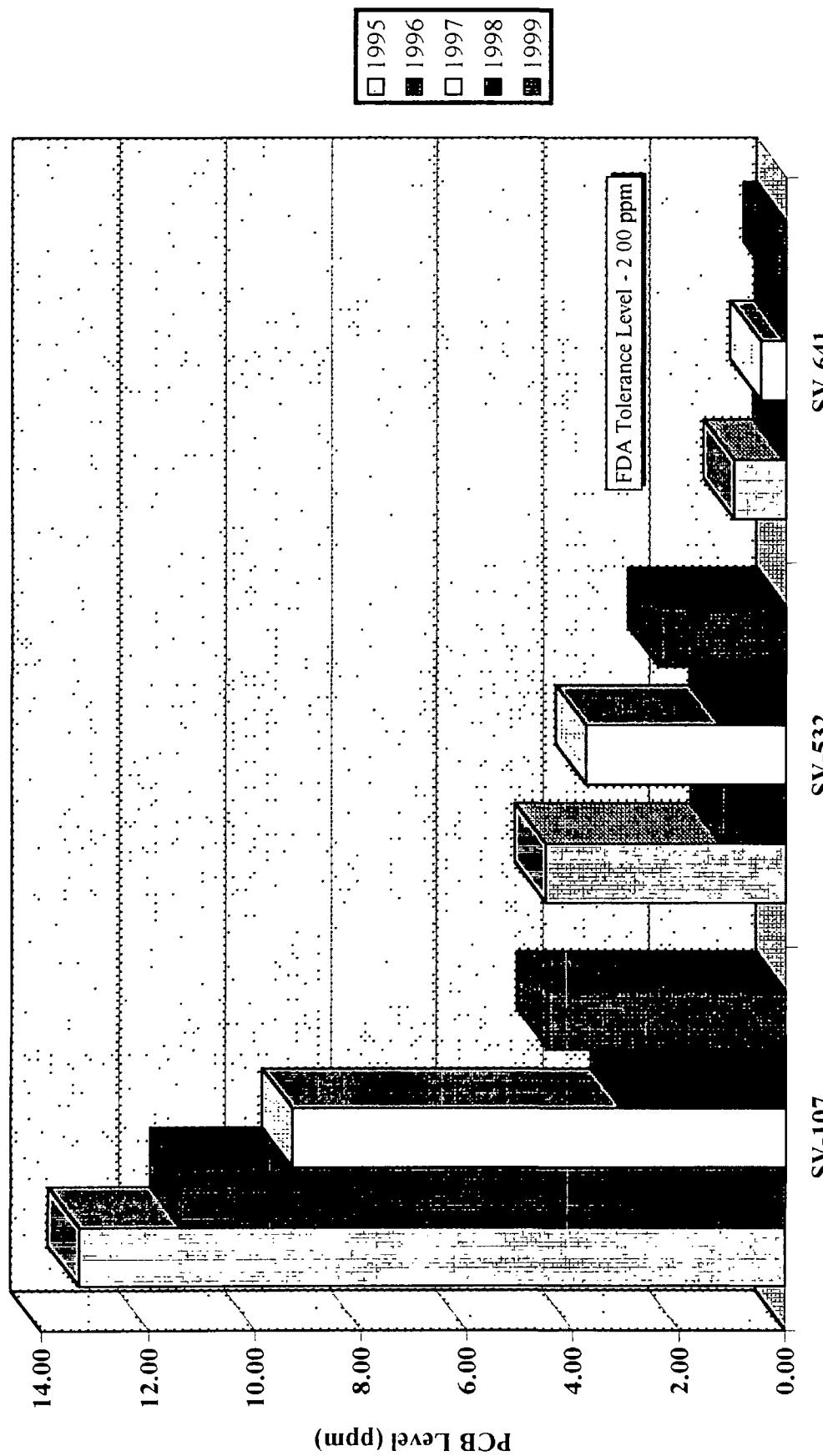


Figure 13 - PCB Levels in Gizzard Shad Composite Samples (1995-1999),
Lake Hartwell OU2 Fish Study

Appendix A
Sediment Analytical Data Sheets

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

5/20/99

ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

MATRIX : SEDIMENT DATE SAMPLED: 4/29/99

DATE RECEIVED: 5/7/99 TIME: 10:30 PROJECT: 4517

SAMPLED BY: J. ORR LOCATION: CLEMSON, SC

CUSTOMER PO: N/A LAB ELAP #: 11078

NEA ID	CUSTOMER ID	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AC01870	SD012	Total Organic Carbon	15000	1700	mg/kg	5/19/99
AC01871	SD012 DUPLICATE	Total Organic Carbon	15000	2400	mg/kg	5/19/99
AC01872	SD013	Total Organic Carbon	29000	9000	mg/kg	5/19/99
AC01873	SD014	Total Organic Carbon	17000	4700	mg/kg	5/19/99
AC01874	SD015	Total Organic Carbon	28000	6400	mg/kg	5/19/99
AC01875	SD106	Total Organic Carbon	31000	6200	mg/kg	5/19/99
01876	SD532	Total Organic Carbon	37000	8300	mg/kg	5/19/99

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

Robert E. Wagner Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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CERTIFICATE OF ANALYSIS

5/28/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

MATRIX : SEDIMENT PROJECT: 4517
DATE RECEIVED: 5/14/99 TIME: 10 00 LOCATION: LAKE HARTWELL SC
SAMPLED BY: J ORR LAB ELAP #: 11078
CUSTOMER PO: N/A

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	RESULTS	PQL	UNITS	DATE TESTED
AC02316	SD-642	Total Organic Carbon	5/11/99	36000	10000	mg/kg	5/21/99
AC02317	SD-535	Total Organic Carbon	5/11/99	39000	14000	mg/kg	5/21/99
AC02323	SD-008	Total Organic Carbon	5/12/99	24000	3400	mg/kg	5/21/99
AC02324	SD-008 DUP	Total Organic Carbon	5/12/99	29000	4500	mg/kg	5/21/99
AC02325	SD-009	Total Organic Carbon	5/12/99	22000	3300	mg/kg	5/21/99
AC02326	SD-007	Total Organic Carbon	5/12/99	26000	4900	mg/kg	5/24/99
AC02330	SD-641	Total Organic Carbon	5/13/99	24000	8400	mg/kg	5/24/99

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

MATRIX : SEDIMENT PROJECT: 4517
DATE RECEIVED: 5/3/99 TIME: 8:00 LOCATION: LAKE HARTWELL, SC
SAMPLED BY: J ORR LAB ELAP #: 11078
CUSTOMER PO: N/A

NEA ID	CUSTOMER ID	METHOD	DATE SAMPLED	RESULTS	PQL	UNITS	DATE TESTED
AC01770	SD-010	Total Organic Carbon	4/29/99	24000	4000	mg/kg	5/13/99
AC01771	SD-011	Total Organic Carbon	4/29/99	25000	4400	mg/kg	5/13/99
AC01772	SD-003	Total Organic Carbon	4/28/99	3200	1400	mg/kg	5/13/99
AC01773	SD-000	Total Organic Carbon	4/28/99	3300	850	mg/kg	5/13/99
AC01774	SD-001	Total Organic Carbon	4/28/99	6900	1000	mg/kg	5/13/99
01775	SD-002	Total Organic Carbon	4/28/99	3700	1200	mg/kg	5/13/99
AC01776	SD-004	Total Organic Carbon	4/28/99	16000	3000	mg/kg	5/13/99
AC01777	SD-005	Total Organic Carbon	4/28/99	2100	1100	mg/kg	5/13/99
AC01778	SD-006	Total Organic Carbon	4/28/99	2600	1200	mg/kg	5/17/99

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-000	NEA ID:	AC01773
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #.	11078

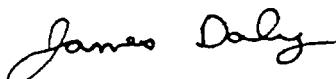
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 065	µg/g	5/21/99	
Aroclor 1221	ND	0 065	µg/g	5/21/99	
Aroclor 1232	ND	0 065	µg/g	5/21/99	
Aroclor 1242	ND	0 065	µg/g	5/21/99	
Aroclor 1248	ND	0 065	µg/g	5/21/99	
Aroclor 1254	ND	0 065	µg/g	5/21/99	
Aroclor 1260	ND	0 065	µg/g	5/21/99	
Total PCB Amount > Reporting Limit	0				

HIR - Indicates hold time was exceeded for re-extraction of sample

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-001	NEA ID:	AC01774
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.062	µg/g	5/21/99
Aroclor 1221	ND	0.062	µg/g	5/21/99
Aroclor 1232	ND	0.062	µg/g	5/21/99
Aroclor 1242	2.18	0.062	µg/g	5/21/99
Aroclor 1248	ND	0.062	µg/g	5/21/99
Aroclor 1254	ND	0.062	µg/g	5/21/99
Aroclor 1260	ND	0.062	µg/g	5/21/99

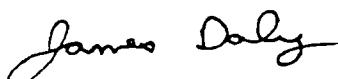
Total PCB Amount > Reporting Limit 2.18

HR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-002	NEA ID:	AC01775
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.065	µg/g	5/22/99	
Aroclor 1221	ND	0.065	µg/g	5/22/99	
Aroclor 1232	ND	0.065	µg/g	5/22/99	
Aroclor 1242	0.112	0.065	µg/g	5/22/99	AD
Aroclor 1248	ND	0.065	µg/g	5/22/99	
Aroclor 1254	0.292	0.065	µg/g	5/22/99	AF
Aroclor 1260	ND	0.065	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 0.404

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

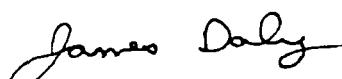
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HR - Indicates hold time was exceeded for re-extraction of sample.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-003	NEA ID:	AC01772
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 060	µg/g	5/21/99
Aroclor 1221	ND	0 060	µg/g	5/21/99
Aroclor 1232	ND	0 060	µg/g	5/21/99
Aroclor 1242	ND	0 060	µg/g	5/21/99
Aroclor 1248	ND	0 060	µg/g	5/21/99
Aroclor 1254	ND	0 060	µg/g	5/21/99
Aroclor 1260	ND	0 060	µg/g	5/21/99

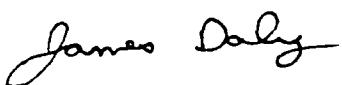
Total PCB Amount > Reporting Limit 0

HR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert L. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-004	NEA ID:	AC01776
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.178	µg/g	5/22/99	
Aroclor 1221	ND	0.178	µg/g	5/22/99	
Aroclor 1232	ND	0.178	µg/g	5/22/99	
Aroclor 1242	0.343	0.178	µg/g	5/22/99	AD
Aroclor 1248	ND	0.178	µg/g	5/22/99	
Aroclor 1254	0.818	0.178	µg/g	5/22/99	AF
Aroclor 1260	ND	0.178	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 1.16

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HR - Indicates hold time was exceeded for re-extraction of sample.

Note: ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-005	NEA ID:	AC01777
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 061	µg/g	5/22/99	
Aroclor 1221	ND	0 061	µg/g	5/22/99	
Aroclor 1232	ND	0 061	µg/g	5/22/99	
Aroclor 1242	0 061	0 061	µg/g	5/22/99	AD
Aroclor 1248	ND	0 061	µg/g	5/22/99	
Aroclor 1254	0 076	0 061	µg/g	5/22/99	AF
Aroclor 1260	ND	0 061	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 0.137

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HIR - Indicates hold time was exceeded for re-extraction of sample.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-006	NEA ID:	AC01778
MATRIX :	SEDIMENT	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.067	µg/g	5/22/99	
Aroclor 1221	ND	0.067	µg/g	5/22/99	
Aroclor 1232	ND	0.067	µg/g	5/22/99	
Aroclor 1242	0.120	0.067	µg/g	5/22/99	AD
Aroclor 1248	ND	0.067	µg/g	5/22/99	
Aroclor 1254	0.188	0.067	µg/g	5/22/99	AF
Aroclor 1260	ND	0.067	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 0.308

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

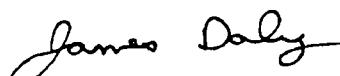
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HIR - Indicates hold time was exceeded for re-extraction of sample.

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/11/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-007	NEA ID:	AC02326
MATRIX :	SEDIMENT	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
PROJECT:	4517	LOCATION:	LAKE HARTWELL SC
SAMPLED BY:	J ORR	LAB ELAP #:	11078
CUSTOMER PO:	N/A		

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.110	µg/g	6/2/99	
Aroclor 1221	ND	0.110	µg/g	6/2/99	
Aroclor 1232	ND	0.110	µg/g	6/2/99	
Aroclor 1242	1.05	0.110	µg/g	6/2/99	AD
Aroclor 1248	ND	0.110	µg/g	6/2/99	
Aroclor 1254	1.23	0.110	µg/g	6/2/99	AF
Aroclor 1260	ND	0.110	µg/g	6/2/99	

Total PCB Amount > Reporting Limit 2.28

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-008	NEA ID:	AC02323
MATRIX :	SEDIMENT	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
PROJECT:	4517	LOCATION:	LAKE HARTWELL, SC
SAMPLED BY:	I ORR	LAB ELAP #:	11078
CUSTOMER PO:	N/A		

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 120	µg/g	6/1/99	
Aroclor 1221	ND	0 120	µg/g	6/1/99	
Aroclor 1232	ND	0 120	µg/g	6/1/99	
Aroclor 1242	1 57	0 120	µg/g	6/1/99	AD
Aroclor 1248	ND	0 120	µg/g	6/1/99	
Aroclor 1254	1 78	0 120	µg/g	6/1/99	AF
Aroclor 1260	ND	0 120	µg/g	6/1/99	

Total PCB Amount > Reporting Limit 3.35

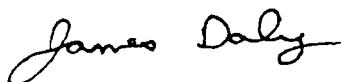
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-008 DUP	NEA ID:	AC02324
MATRIX :	SEDIMENT	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 124	µg/g	6/2/99	
Aroclor 1221	ND	0 124	µg/g	6/2/99	
Aroclor 1232	ND	0 124	µg/g	6/2/99	
Aroclor 1242	1 03	0 124	µg/g	6/2/99	AD
Aroclor 1248	ND	0 124	µg/g	6/2/99	
Aroclor 1254	1 01	0 124	µg/g	6/2/99	AF
Aroclor 1260	ND	0 124	µg/g	6/2/99	

Total PCB Amount > Reporting Limit 2 04

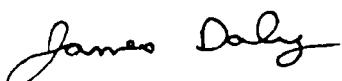
AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-009	NEA ID:	AC02325
MATRIX :	SEDIMENT	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.089	µg/g	6/2/99	
Aroclor 1221	ND	0.089	µg/g	6/2/99	
Aroclor 1232	ND	0.089	µg/g	6/2/99	
Aroclor 1242	1.64	0.089	µg/g	6/2/99	AD
Aroclor 1248	ND	0.089	µg/g	6/2/99	
Aroclor 1254	1.57	0.089	µg/g	6/2/99	AF
Aroclor 1260	ND	0.089	µg/g	6/2/99	

Total PCB Amount > Reporting Limit 3.21

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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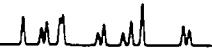
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-010	NEA ID:	AC01770
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.210	µg/g	5/21/99	
Aroclor 1221	ND	0.210	µg/g	5/21/99	
Aroclor 1232	ND	0.210	µg/g	5/21/99	
Aroclor 1242	1.30	0.210	µg/g	5/21/99	AD
Aroclor 1248	ND	0.210	µg/g	5/21/99	
Aroclor 1254	1.76	0.210	µg/g	5/21/99	AF
Aroclor 1260	ND	0.210	µg/g	5/21/99	

Total PCB Amount > Reporting Limit 3.06

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HIR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-011	NEA ID:	AC01771
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/3/99	TIME:	8 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.350	µg/g	5/21/99	
Aroclor 1221	ND	0.350	µg/g	5/21/99	
Aroclor 1232	ND	0.350	µg/g	5/21/99	
Aroclor 1242	2.46	0.350	µg/g	5/21/99	AD
Aroclor 1248	ND	0.350	µg/g	5/21/99	
Aroclor 1254	1.47	0.350	µg/g	5/21/99	AF
Aroclor 1260	ND	0.350	µg/g	5/21/99	

Total PCB Amount > Reporting Limit 3.93

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

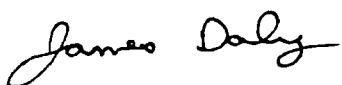
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HIR - Indicates hold time was exceeded for re-extraction of sample.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD012	NEA ID:	AC01870
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE FFSTFD	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.112	µg/g	5/22/99	
Aroclor 1221	ND	0.112	µg/g	5/22/99	
Aroclor 1232	ND	0.112	µg/g	5/22/99	
Aroclor 1242	1.04	0.112	µg/g	5/22/99	AD
Aroclor 1248	ND	0.112	µg/g	5/22/99	
Aroclor 1254	1.15	0.112	µg/g	5/22/99	AF
Aroclor 1260	ND	0.112	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 2.19

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

HIR - Indicates hold time was exceeded for re-extraction of sample

Note: ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert F. Wagner, Laboratory Director

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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD012 DUPLICATE	NEA ID:	AC01871
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	LOCATION:	CLEMSON, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 111	µg/g	5/22/99	
Aroclor 1221	ND	0 111	µg/g	5/22/99	
Aroclor 1232	ND	0 111	µg/g	5/22/99	
Aroclor 1242	1 00	0 111	µg/g	5/22/99	AD
Aroclor 1248	ND	0 111	µg/g	5/22/99	
Aroclor 1254	1 20	0 111	µg/g	5/22/99	AF
Aroclor 1260	ND	0 111	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 2 20

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

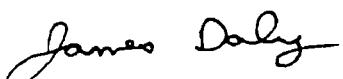
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

HIR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD013	NEA ID:	AC01872
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 466	µg/g	5/22/99	
Aroclor 1221	ND	0 466	µg/g	5/22/99	
Aroclor 1232	ND	0 466	µg/g	5/22/99	
Aroclor 1242	3 59	0 466	µg/g	5/22/99	AD
Aroclor 1248	ND	0 466	µg/g	5/22/99	
Aroclor 1254	2 19	0 466	µg/g	5/22/99	AF
Aroclor 1260	ND	0 466	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 5 78

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

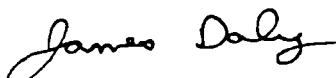
AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

HIR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD014	NEA ID:	AC01873
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.094	µg/g	5/22/99	
Aroclor 1221	ND	0.094	µg/g	5/22/99	
Aroclor 1232	ND	0.094	µg/g	5/22/99	
Aroclor 1242	0.815	0.094	µg/g	5/22/99	AD
Aroclor 1248	ND	0.094	µg/g	5/22/99	
Aroclor 1254	0.582	0.094	µg/g	5/22/99	AF
Aroclor 1260	ND	0.094	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 1.40

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

HIR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD015	NEA ID:	AC01874
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.229	µg/g	5/22/99	
Aroclor 1221	ND	0.229	µg/g	5/22/99	
Aroclor 1232	ND	0.229	µg/g	5/22/99	
Aroclor 1242	1.65	0.229	µg/g	5/22/99	AD
Aroclor 1248	ND	0.229	µg/g	5/22/99	
Aroclor 1254	1.34	0.229	µg/g	5/22/99	AF
Aroclor 1260	ND	0.229	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 2.99

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF -Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

HIR - Indicates hold time was exceeded for re-extraction of sample.

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD106	NEA ID:	AC01875
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.233	µg/g	5/22/99	
Aroclor 1221	ND	0.233	µg/g	5/22/99	
Aroclor 1232	ND	0.233	µg/g	5/22/99	
Aroclor 1242	1.93	0.233	µg/g	5/22/99	AD
Aroclor 1248	ND	0.233	µg/g	5/22/99	
Aroclor 1254	1.53	0.233	µg/g	5/22/99	AF
Aroclor 1260	ND	0.233	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 3.46

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

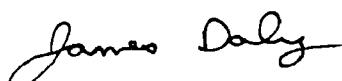
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

HR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/4/99

ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD532	NEA ID:	AC01876
MATRIX :	SEDIMENT	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/7/99	TIME:	10 30
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 139	µg/g	5/22/99	
Aroclor 1221	ND	0 139	µg/g	5/22/99	
Aroclor 1232	ND	0 139	µg/g	5/22/99	
Aroclor 1242	0 179	0 139	µg/g	5/22/99	AD
Aroclor 1248	ND	0 139	µg/g	5/22/99	
Aroclor 1254	0 226	0 139	µg/g	5/22/99	AF
Aroclor 1260	ND	0 139	µg/g	5/22/99	

Total PCB Amount > Reporting Limit 0 405

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

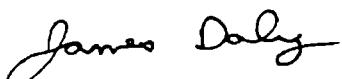
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

HIR - Indicates hold time was exceeded for re-extraction of sample

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-535	NEA ID:	AC02317
MATRIX :	SEDIMENT	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	I ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.204	µg/g	6/1/99	
Aroclor 1221	ND	0.204	µg/g	6/1/99	
Aroclor 1232	ND	0.204	µg/g	6/1/99	
Aroclor 1242	ND	0.204	µg/g	6/1/99	
Aroclor 1248	0.837	0.204	µg/g	6/1/99	AE
Aroclor 1254	ND	0.204	µg/g	6/1/99	
Aroclor 1260	ND	0.204	µg/g	6/1/99	
Total PCB Amount > Reporting Limit	0.837				

All-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-641	NEA ID:	AC02330
MATRIX :	SEDIMENT	DATE SAMPLED:	5/13/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL. SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.146	µg/g	6/2/99	
Aroclor 1221	ND	0.146	µg/g	6/2/99	
Aroclor 1232	ND	0.146	µg/g	6/2/99	
Aroclor 1242	ND	0.146	µg/g	6/2/99	
Aroclor 1248	1.88	0.146	µg/g	6/2/99	AE
Aroclor 1254	ND	0.146	µg/g	6/2/99	
Aroclor 1260	ND	0.146	µg/g	6/2/99	

Total PCB Amount > Reporting Limit 1.88

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner Laboratory Director

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ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SD-642	NEA ID:	AC02316
MATRIX :	SEDIMENT	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 204	µg/g	6/1/99	
Aroclor 1221	ND	0 204	µg/g	6/1/99	
Aroclor 1232	ND	0 204	µg/g	6/1/99	
Aroclor 1242	ND	0 204	µg/g	6/1/99	
Aroclor 1248	0 984	0 204	µg/g	6/1/99	AE
Aroclor 1254	ND	0 204	µg/g	6/1/99	
Aroclor 1260	ND	0 204	µg/g	6/1/99	

Total PCB Amount > Reporting Limit 0 984

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

Robert F. Wagner Laboratory Director

Appendix B
Corbicula Analytical Data Sheets

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-0	NEA ID:	AC03189
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J. ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	6/17/99	
Aroclor 1221	ND	0.055	µg/g	6/17/99	
Aroclor 1232	ND	0.055	µg/g	6/17/99	
Aroclor 1242	ND	0.055	µg/g	6/17/99	
Aroclor 1248	0.136	0.055	µg/g	6/17/99	AE
Aroclor 1254	0.110	0.055	µg/g	6/17/99	AF
Aroclor 1260	ND	0.055	µg/g	6/17/99	

Total PCB Amount > Reporting Limit 0.246

AE-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-1	NEA ID:	AC03190
MATRIX:	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10:45
SAMPLED BY:	J. ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.253	µg/g	6/17/99	
Aroclor 1221	ND	0.253	µg/g	6/17/99	
Aroclor 1232	ND	0.253	µg/g	6/17/99	
Aroclor 1242	3.39	0.253	µg/g	6/17/99	AD
Aroclor 1248	ND	0.253	µg/g	6/17/99	
Aroclor 1254	ND	0.253	µg/g	6/17/99	
Aroclor 1260	ND	0.253	µg/g	6/17/99	

Total PCB Amount > Reporting Limit 3.39

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-2	NEA ID:	AC03191
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/g	6/17/99	
Aroclor 1221	ND	0.054	µg/g	6/17/99	
Aroclor 1232	ND	0.054	µg/g	6/17/99	
Aroclor 1242	ND	0.054	µg/g	6/17/99	
Aroclor 1248	ND	0.054	µg/g	6/17/99	
Aroclor 1254	0.153	0.054	µg/g	6/17/99	AF
Aroclor 1260	ND	0.054	µg/g	6/17/99	

Total PCB Amount > Reporting Limit 0.153

AI-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.

Robert F. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-3	NEA ID:	AC03192
MATRIX:	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10:45
SAMPLED BY:	J. ORR	LOCATION:	CLEMSON SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.272	µg/g	6/17/99	
Aroclor 1221	ND	0.272	µg/g	6/17/99	
Aroclor 1232	ND	0.272	µg/g	6/17/99	
Aroclor 1242	ND	0.272	µg/g	6/17/99	
Aroclor 1248	4.19	0.272	µg/g	6/17/99	AE
Aroclor 1254	1.42	0.272	µg/g	6/17/99	AF
Aroclor 1260	ND	0.272	µg/g	6/17/99	
Total PCB Amount > Reporting Limit	5.61				

AL-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-4	NEA ID:	AC03196
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/g	6/17/99	
Aroclor 1221	ND	0.054	µg/g	6/17/99	
Aroclor 1232	ND	0.054	µg/g	6/17/99	
Aroclor 1242	ND	0.054	µg/g	6/17/99	
Aroclor 1248	ND	0.054	µg/g	6/17/99	
Aroclor 1254	0.066	0.054	µg/g	6/17/99	AF
Aroclor 1260	ND	0.054	µg/g	6/17/99	

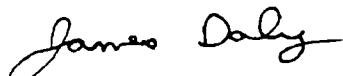
Total PCB Amount > Reporting Limit 0.066

All -Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-5	NEA ID:	AC03193
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	6/17/99	
Aroclor 1221	ND	0.052	µg/g	6/17/99	
Aroclor 1232	ND	0.052	µg/g	6/17/99	
Aroclor 1242	ND	0.052	µg/g	6/17/99	
Aroclor 1248	1.68	0.052	µg/g	6/17/99	AE
Aroclor 1254	0.972	0.052	µg/g	6/17/99	AF
Aroclor 1260	ND	0.052	µg/g	6/17/99	

Total PCB Amount > Reporting Limit 2.65

AI-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

AI-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern

Note: ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert L. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-5 DUPLICATE	NEA ID:	AC03195
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	CLEMSON, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	6/17/99	
Aroclor 1221	ND	0.052	µg/g	6/17/99	
Aroclor 1232	ND	0.052	µg/g	6/17/99	
Aroclor 1242	ND	0.052	µg/g	6/17/99	
Aroclor 1248	1.95	0.052	µg/g	6/17/99	AE
Aroclor 1254	1.27	0.052	µg/g	6/17/99	
Aroclor 1260	ND	0.052	µg/g	6/17/99	

Total PCB Amount > Reporting Limit 3.22

AL-Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	C-6	NEA ID:	AC03194
MATRIX :	CORBICULA	DATE SAMPLED:	5/26/99
DATE RECEIVED:	6/3/99	TIME:	10 45
SAMPLED BY:	J ORR	LOCATION:	CLEMSON, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 101	µg/g	6/17/99	
Aroclor 1221	3 06	0 101	µg/g	6/17/99	PD
Aroclor 1232	ND	0 101	µg/g	6/17/99	
Aroclor 1242	1 95	0 101	µg/g	6/17/99	AD
Aroclor 1248	ND	0 101	µg/g	6/17/99	
Aroclor 1254	1 40	0 101	µg/g	6/17/99	AF
Aroclor 1260	ND	0 101	µg/g	6/17/99	
Total PCB Amount > Reporting Limit	6 41				

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

Appendix C
Fish Analytical Data Sheets

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

5/18/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-01	NEA ID:	AC01534
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.076	µg/g	4/29/99	
Aroclor 1221	ND	0.076	µg/g	4/29/99	
Aroclor 1232	ND	0.076	µg/g	4/29/99	
Aroclor 1242	ND	0.076	µg/g	4/29/99	
Aroclor 1248	ND	0.076	µg/g	4/29/99	
Aroclor 1254	2.07	0.076	µg/g	4/29/99	
Aroclor 1260	0.448	0.076	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	2.52				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert L. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
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5/18/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-02	NEA ID:	AC01535
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 306	µg/g	4/29/99	
Aroclor 1221	ND	0 306	µg/g	4/29/99	
Aroclor 1232	ND	0 306	µg/g	4/29/99	
Aroclor 1242	ND	0 306	µg/g	4/29/99	
Aroclor 1248	ND	0 306	µg/g	4/29/99	
Aroclor 1254	7 95	0 306	µg/g	4/29/99	
Aroclor 1260	1 45	0 306	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	9 40				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-03	NEA ID:	AC01536
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.204	µg/g	4/29/99
Aroclor 1221	ND	0.204	µg/g	4/29/99
Aroclor 1232	ND	0.204	µg/g	4/29/99
Aroclor 1242	ND	0.204	µg/g	4/29/99
Aroclor 1248	ND	0.204	µg/g	4/29/99
Aroclor 1254	5.11	0.204	µg/g	4/29/99
Aroclor 1260	0.729	0.204	µg/g	4/29/99
Total PCB Amount > Reporting Limit	5.84			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-04	NEA ID:	AC01537
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 105	µg/g	4/30/99
Aroclor 1221	ND	0 105	µg/g	4/30/99
Aroclor 1232	ND	0 105	µg/g	4/30/99
Aroclor 1242	ND	0 105	µg/g	4/30/99
Aroclor 1248	ND	0 105	µg/g	4/30/99
Aroclor 1254	2 73	0 105	µg/g	4/30/99
Aroclor 1260	0 404	0 105	µg/g	4/30/99

Total PCB Amount > Reporting Limit 3 13

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-05	NEA ID:	AC01538
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 153	µg/g	4/30/99	
Aroclor 1221	ND	0 153	µg/g	4/30/99	
Aroclor 1232	ND	0 153	µg/g	4/30/99	
Aroclor 1242	ND	0 153	µg/g	4/30/99	
Aroclor 1248	ND	0 153	µg/g	4/30/99	
Aroclor 1254	4 28	0 153	µg/g	4/30/99	
Aroclor 1260	0 665	0 153	µg/g	4/30/99	
Total PCB Amount > Reporting Limit	4 95				

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

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Northeast Analytical Inc

Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-06	NEA ID:	AC01539
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL.	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

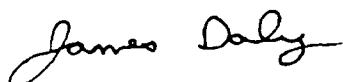
Aroclor 1016	ND	0.206	µg/g	5/17/99
Aroclor 1221	ND	0.206	µg/g	5/17/99
Aroclor 1232	ND	0.206	µg/g	5/17/99
Aroclor 1242	ND	0.206	µg/g	5/17/99
Aroclor 1248	ND	0.206	µg/g	5/17/99
Aroclor 1254	4.72	0.206	µg/g	5/17/99
Aroclor 1260	0.852	0.206	µg/g	5/17/99

Total PCB Amount > Reporting Limit 5.57

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

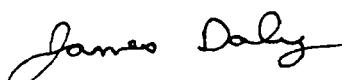
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DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	5/17/99	
Aroclor 1221	ND	0.051	µg/g	5/17/99	
Aroclor 1232	ND	0.051	µg/g	5/17/99	
Aroclor 1242	ND	0.051	µg/g	5/17/99	
Aroclor 1248	ND	0.051	µg/g	5/17/99	
Aroclor 1254	0.282	0.051	µg/g	5/17/99	
Aroclor 1260	0.102	0.051	µg/g	5/17/99	
Total PCB Amount > Reporting Limit	0.384				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-08	NEA ID:	AC01541
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TFS FFD	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.050	µg/g	5/17/99
Aroclor 1221	ND	0.050	µg/g	5/17/99
Aroclor 1232	ND	0.050	µg/g	5/17/99
Aroclor 1242	ND	0.050	µg/g	5/17/99
Aroclor 1248	ND	0.050	µg/g	5/17/99
Aroclor 1254	1.16	0.050	µg/g	5/17/99
Aroclor 1260	0.179	0.050	µg/g	5/17/99

Total PCB Amount > Reporting Limit 1.34

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-09	NEA ID:	AC01542
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.204	µg/g	5/17/99
Aroclor 1221	ND	0.204	µg/g	5/17/99
Aroclor 1232	ND	0.204	µg/g	5/17/99
Aroclor 1242	ND	0.204	µg/g	5/17/99
Aroclor 1248	ND	0.204	µg/g	5/17/99
Aroclor 1254	5.49	0.204	µg/g	5/17/99
Aroclor 1260	0.801	0.204	µg/g	5/17/99

Total PCB Amount > Reporting Limit 6.29

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-10	NEA ID:	AC01543
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

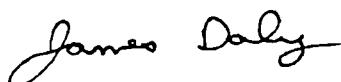
Aroclor 1016	ND	0.052	µg/g	5/17/99
Aroclor 1221	ND	0.052	µg/g	5/17/99
Aroclor 1232	ND	0.052	µg/g	5/17/99
Aroclor 1242	ND	0.052	µg/g	5/17/99
Aroclor 1248	ND	0.052	µg/g	5/17/99
Aroclor 1254	1.00	0.052	µg/g	5/17/99
Aroclor 1260	0.097	0.052	µg/g	5/17/99

Total PCB Amount > Reporting Limit 1.10

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert E Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

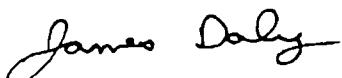
CUSTOMER ID:	SV106-11	NEA ID:	AC01576
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 154	µg/g	5/18/99	
Aroclor 1221	ND	0 154	µg/g	5/18/99	
Aroclor 1232	ND	0 154	µg/g	5/18/99	
Aroclor 1242	ND	0 154	µg/g	5/18/99	
Aroclor 1248	ND	0 154	µg/g	5/18/99	
Aroclor 1254	3 53	0 154	µg/g	5/18/99	
Aroclor 1260	0 623	0 154	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	4 15				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-12	NEA ID:	AC01577
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.050	µg/g	5/18/99	
Aroclor 1221	ND	0.050	µg/g	5/18/99	
Aroclor 1232	ND	0.050	µg/g	5/18/99	
Aroclor 1242	ND	0.050	µg/g	5/18/99	
Aroclor 1248	ND	0.050	µg/g	5/18/99	
Aroclor 1254	1.04	0.050	µg/g	5/18/99	
Aroclor 1260	0.185	0.050	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	1.23				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

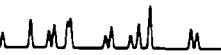
Robert E. Wagner, Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-13	NEA ID:	AC01578
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.052	µg/g	5/18/99	
Aroclor 1221	ND	0.052	µg/g	5/18/99	
Aroclor 1232	ND	0.052	µg/g	5/18/99	
Aroclor 1242	ND	0.052	µg/g	5/18/99	
Aroclor 1248	ND	0.052	µg/g	5/18/99	
Aroclor 1254	0.785	0.052	µg/g	5/18/99	
Aroclor 1260	0.220	0.052	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	1.00				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-14	NEA ID:	AC01579
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 102	µg/g	5/18/99
Aroclor 1221	ND	0 102	µg/g	5/18/99
Aroclor 1232	ND	0 102	µg/g	5/18/99
Aroclor 1242	ND	0 102	µg/g	5/18/99
Aroclor 1248	ND	0 102	µg/g	5/18/99
Aroclor 1254	2 55	0 102	µg/g	5/18/99
Aroclor 1260	0 393	0 102	µg/g	5/18/99

Total PCB Amount > Reporting Limit 2 94

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-15	NEA ID:	AC01580
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/18/99
Aroclor 1221	ND	0 051	µg/g	5/18/99
Aroclor 1232	ND	0 051	µg/g	5/18/99
Aroclor 1242	ND	0 051	µg/g	5/18/99
Aroclor 1248	ND	0 051	µg/g	5/18/99
Aroclor 1254	1 24	0 051	µg/g	5/18/99
Aroclor 1260	0 378	0 051	µg/g	5/18/99
Total PCB Amount > Reporting Limit	1 62			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

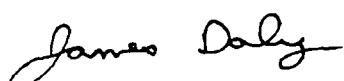
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DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.052	µg/g	5/18/99	
Aroclor 1221	ND	0.052	µg/g	5/18/99	
Aroclor 1232	ND	0.052	µg/g	5/18/99	
Aroclor 1242	ND	0.052	µg/g	5/18/99	
Aroclor 1248	ND	0.052	µg/g	5/18/99	
Aroclor 1254	1.85	0.052	µg/g	5/18/99	
Aroclor 1260	0.696	0.052	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	2.55				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-17	NEA ID:	AC01582
MATRIX :	FISH	DATE SAMPLED:	4/21/99 TIME: N/A
DATE RECEIVED:	4/23/99	TIME:	9 00 PROJECT: 4517
SAMPLED BY:	J ORR	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 103	µg/g	5/18/99
Aroclor 1221	ND	0 103	µg/g	5/18/99
Aroclor 1232	ND	0 103	µg/g	5/18/99
Aroclor 1242	ND	0 103	µg/g	5/18/99
Aroclor 1248	ND	0 103	µg/g	5/18/99
Aroclor 1254	3.23	0 103	µg/g	5/18/99
Aroclor 1260	0.467	0 103	µg/g	5/18/99
Total PCB Amount > Reporting Limit	3.70			

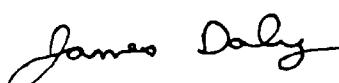
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

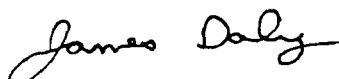
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MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	5/19/99	
Aroclor 1221	ND	0 103	µg/g	5/19/99	
Aroclor 1232	ND	0 103	µg/g	5/19/99	
Aroclor 1242	ND	0 103	µg/g	5/19/99	
Aroclor 1248	ND	0 103	µg/g	5/19/99	
Aroclor 1254	3 51	0 103	µg/g	5/19/99	
Aroclor 1260	0 608	0 103	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	4 12				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-19	NEA ID:	AC01584
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.050	µg/g	5/19/99
Aroclor 1221	ND	0.050	µg/g	5/19/99
Aroclor 1232	ND	0.050	µg/g	5/19/99
Aroclor 1242	ND	0.050	µg/g	5/19/99
Aroclor 1248	ND	0.050	µg/g	5/19/99
Aroclor 1254	0.917	0.050	µg/g	5/19/99
Aroclor 1260	0.346	0.050	µg/g	5/19/99

Total PCB Amount > Reporting Limit 1.26

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
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CONTACT: JIM ORR

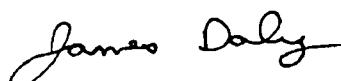
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MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 100	µg/g	5/19/99	
Aroclor 1221	ND	0 100	µg/g	5/19/99	
Aroclor 1232	ND	0 100	µg/g	5/19/99	
Aroclor 1242	ND	0 100	µg/g	5/19/99	
Aroclor 1248	ND	0 100	µg/g	5/19/99	
Aroclor 1254	2 27	0 100	µg/g	5/19/99	
Aroclor 1260	0 424	0 100	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	2 69				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-21	NEA ID:	AC01586
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/19/99
Aroclor 1221	ND	0 051	µg/g	5/19/99
Aroclor 1232	ND	0 051	µg/g	5/19/99
Aroclor 1242	ND	0 051	µg/g	5/19/99
Aroclor 1248	ND	0 051	µg/g	5/19/99
Aroclor 1254	0 747	0 051	µg/g	5/19/99
Aroclor 1260	0 186	0 051	µg/g	5/19/99
Total PCB Amount > Reporting Limit	0 933			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV106-22	NEA ID:	AC01587
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 101	µg/g	5/19/99
Aroclor 1221	ND	0 101	µg/g	5/19/99
Aroclor 1232	ND	0 101	µg/g	5/19/99
Aroclor 1242	ND	0 101	µg/g	5/19/99
Aroclor 1248	ND	0 101	µg/g	5/19/99
Aroclor 1254	3 21	0 101	µg/g	5/19/99
Aroclor 1260	0 518	0 101	µg/g	5/19/99
Total PCB Amount > Reporting Limit	3 73			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
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CONTACT: JIM ORR

CUSTOMER ID:	SV106-23	NEA ID:	AC01790
MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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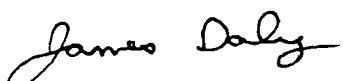
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	6/4/99
Aroclor 1221	ND	0.055	µg/g	6/4/99
Aroclor 1232	ND	0.055	µg/g	6/4/99
Aroclor 1242	ND	0.055	µg/g	6/4/99
Aroclor 1248	ND	0.055	µg/g	6/4/99
Aroclor 1254	1.98	0.055	µg/g	6/4/99
Aroclor 1260	0.234	0.055	µg/g	6/4/99
Total PCB Amount > Reporting Limit	2.21			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-24 NEA ID: AC01791

MATRIX : FISH DATE SAMPLED: 4/29/99 TIME: N/A

DATE RECEIVED: 5/1/99 TIME: 11:00 PROJECT: 4517

SAMPLED BY: J. ORR LOCATION: LAKE HARTWELL, SC

CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	6/4/99
Aroclor 1221	ND	0.052	µg/g	6/4/99
Aroclor 1232	ND	0.052	µg/g	6/4/99
Aroclor 1242	ND	0.052	µg/g	6/4/99
Aroclor 1248	ND	0.052	µg/g	6/4/99
Aroclor 1254	0.891	0.052	µg/g	6/4/99
Aroclor 1260	0.169	0.052	µg/g	6/4/99
Total PCB Amount > Reporting Limit	1.06			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

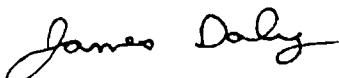
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DATE RECEIVED:	4/22/99	TIME:	10 00
PROJECT:	4517	LOCATION:	LAKE HARTWELL SC
SAMPLED BY:	J ORR	LAB ELAP #:	11078
CUSTOMER PO:	N/A		

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	4/28/99	
Aroclor 1221	ND	0 103	µg/g	4/28/99	
Aroclor 1232	ND	0 103	µg/g	4/28/99	
Aroclor 1242	ND	0 103	µg/g	4/28/99	
Aroclor 1248	ND	0 103	µg/g	4/28/99	
Aroclor 1254	3 15	0 103	µg/g	4/28/99	
Aroclor 1260	0 497	0 103	µg/g	4/28/99	
Total PCB Amount > Reporting Limit	3 65				

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-02	NEA ID:	AC01520
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

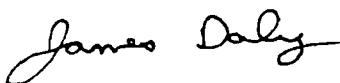
Aroclor 1016	ND	0.312	µg/g	4/28/99
Aroclor 1221	ND	0.312	µg/g	4/28/99
Aroclor 1232	ND	0.312	µg/g	4/28/99
Aroclor 1242	ND	0.312	µg/g	4/28/99
Aroclor 1248	ND	0.312	µg/g	4/28/99
Aroclor 1254	9.59	0.312	µg/g	4/28/99
Aroclor 1260	1.41	0.312	µg/g	4/28/99

Total PCB Amount > Reporting Limit 11.0

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

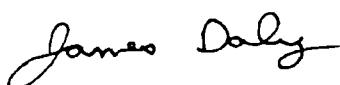
CUSTOMER ID:	SV107-03	NEA ID:	AC01521
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.366	µg/g	4/28/99	
Aroclor 1221	ND	0.366	µg/g	4/28/99	
Aroclor 1232	ND	0.366	µg/g	4/28/99	
Aroclor 1242	ND	0.366	µg/g	4/28/99	
Aroclor 1248	ND	0.366	µg/g	4/28/99	
Aroclor 1254	10.0	0.366	µg/g	4/28/99	
Aroclor 1260	1.27	0.366	µg/g	4/28/99	
Total PCB Amount > Reporting Limit	11.3				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-04	NEA ID:	AC01522
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.514	µg/g	4/29/99
Aroclor 1221	ND	0.514	µg/g	4/29/99
Aroclor 1232	ND	0.514	µg/g	4/29/99
Aroclor 1242	ND	0.514	µg/g	4/29/99
Aroclor 1248	ND	0.514	µg/g	4/29/99
Aroclor 1254	13.9	0.514	µg/g	4/29/99
Aroclor 1260	1.65	0.514	µg/g	4/29/99
Total PCB Amount > Reporting Limit	15.6			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-05	NEA ID:	AC01523
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	4/29/99	
Aroclor 1221	ND	0 103	µg/g	4/29/99	
Aroclor 1232	ND	0 103	µg/g	4/29/99	
Aroclor 1242	ND	0 103	µg/g	4/29/99	
Aroclor 1248	ND	0 103	µg/g	4/29/99	
Aroclor 1254	3 87	0 103	µg/g	4/29/99	
Aroclor 1260	0 698	0 103	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	4 57				

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-06	NEA ID:	AC01524
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

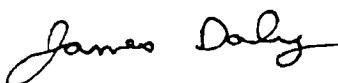
Aroclor 1016	ND	0.309	µg/g	4/29/99
Aroclor 1221	ND	0.309	µg/g	4/29/99
Aroclor 1232	ND	0.309	µg/g	4/29/99
Aroclor 1242	ND	0.309	µg/g	4/29/99
Aroclor 1248	ND	0.309	µg/g	4/29/99
Aroclor 1254	9.90	0.309	µg/g	4/29/99
Aroclor 1260	1.65	0.309	µg/g	4/29/99

Total PCB Amount > Reporting Limit 11.6

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

5/18/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-07	NEA ID:	AC01525
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.157	µg/g	4/29/99	
Aroclor 1221	ND	0.157	µg/g	4/29/99	
Aroclor 1232	ND	0.157	µg/g	4/29/99	
Aroclor 1242	ND	0.157	µg/g	4/29/99	
Aroclor 1248	ND	0.157	µg/g	4/29/99	
Aroclor 1254	4.97	0.157	µg/g	4/29/99	
Aroclor 1260	0.939	0.157	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	5.91				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc.

Robert F. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-08	NEA ID:	AC01526
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.208	µg/g	4/29/99	
Aroclor 1221	ND	0.208	µg/g	4/29/99	
Aroclor 1232	ND	0.208	µg/g	4/29/99	
Aroclor 1242	ND	0.208	µg/g	4/29/99	
Aroclor 1248	ND	0.208	µg/g	4/29/99	
Aroclor 1254	5.67	0.208	µg/g	4/29/99	
Aroclor 1260	1.07	0.208	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	6.74				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-09	NEA ID:	AC01527
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.510	µg/g	4/29/99	
Aroclor 1221	ND	0.510	µg/g	4/29/99	
Aroclor 1232	ND	0.510	µg/g	4/29/99	
Aroclor 1242	ND	0.510	µg/g	4/29/99	
Aroclor 1248	ND	0.510	µg/g	4/29/99	
Aroclor 1254	15.8	0.510	µg/g	4/29/99	
Aroclor 1260	1.90	0.510	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	17.7				

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

5/18/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-10	NEA ID:	AC01528
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.515	µg/g	4/29/99
Aroclor 1221	ND	0.515	µg/g	4/29/99
Aroclor 1232	ND	0.515	µg/g	4/29/99
Aroclor 1242	ND	0.515	µg/g	4/29/99
Aroclor 1248	ND	0.515	µg/g	4/29/99
Aroclor 1254	21.2	0.515	µg/g	4/29/99
Aroclor 1260	2.65	0.515	µg/g	4/29/99
Total PCB Amount > Reporting Limit	23.9			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-11	NEA ID:	AC01529
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 157	µg/g	4/29/99
Aroclor 1221	ND	0 157	µg/g	4/29/99
Aroclor 1232	ND	0 157	µg/g	4/29/99
Aroclor 1242	ND	0 157	µg/g	4/29/99
Aroclor 1248	ND	0 157	µg/g	4/29/99
Aroclor 1254	3.84	0 157	µg/g	4/29/99
Aroclor 1260	0.700	0 157	µg/g	4/29/99

Total PCB Amount > Reporting Limit 4.54

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert L. Wagner Laboratory Director

NORTHEAST ANALYTICAL

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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-12	NEA ID:	AC01530
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 105	µg/g	4/29/99	
Aroclor 1221	ND	0 105	µg/g	4/29/99	
Aroclor 1232	ND	0 105	µg/g	4/29/99	
Aroclor 1242	ND	0 105	µg/g	4/29/99	
Aroclor 1248	ND	0 105	µg/g	4/29/99	
Aroclor 1254	3 01	0 105	µg/g	4/29/99	
Aroclor 1260	0 621	0 105	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	3 63				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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ERMI- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-13	NEA ID:	AC01572
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/18/99
Aroclor 1221	ND	0 051	µg/g	5/18/99
Aroclor 1232	ND	0 051	µg/g	5/18/99
Aroclor 1242	ND	0 051	µg/g	5/18/99
Aroclor 1248	ND	0 051	µg/g	5/18/99
Aroclor 1254	1 68	0 051	µg/g	5/18/99
Aroclor 1260	0 230	0 051	µg/g	5/18/99
Total PCB Amount > Reporting Limit	1 91			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-14	NEA ID:	AC01573
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
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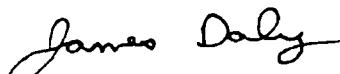
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 050	µg/g	5/18/99
Aroclor 1221	ND	0 050	µg/g	5/18/99
Aroclor 1232	ND	0 050	µg/g	5/18/99
Aroclor 1242	ND	0 050	µg/g	5/18/99
Aroclor 1248	ND	0 050	µg/g	5/18/99
Aroclor 1254	1 63	0 050	µg/g	5/18/99
Aroclor 1260	0 390	0 050	µg/g	5/18/99
Total PCB Amount > Reporting Limit	2 02			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc.

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-15	NEA ID:	AC01574
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	5/18/99
Aroclor 1221	ND	0.052	µg/g	5/18/99
Aroclor 1232	ND	0.052	µg/g	5/18/99
Aroclor 1242	ND	0.052	µg/g	5/18/99
Aroclor 1248	ND	0.052	µg/g	5/18/99
Aroclor 1254	1.27	0.052	µg/g	5/18/99
Aroclor 1260	0.251	0.052	µg/g	5/18/99
Total PCB Amount > Reporting Limit	1.52			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/2/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-16	NEA ID:	AC01575
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 155	µg/g	5/18/99
Aroclor 1221	ND	0 155	µg/g	5/18/99
Aroclor 1232	ND	0 155	µg/g	5/18/99
Aroclor 1242	ND	0 155	µg/g	5/18/99
Aroclor 1248	ND	0 155	µg/g	5/18/99
Aroclor 1254	3 49	0 155	µg/g	5/18/99
Aroclor 1260	0 668	0 155	µg/g	5/18/99
Total PCB Amount > Reporting Limit	4 16			

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

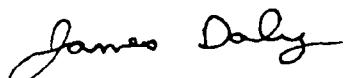
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MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 162	µg/g	6/2/99	
Aroclor 1221	ND	0 162	µg/g	6/2/99	
Aroclor 1232	ND	0 162	µg/g	6/2/99	
Aroclor 1242	ND	0 162	µg/g	6/2/99	
Aroclor 1248	ND	0 162	µg/g	6/2/99	
Aroclor 1254	3 40	0 162	µg/g	6/2/99	
Aroclor 1260	0 524	0 162	µg/g	6/2/99	
Total PCB Amount > Reporting Limit	3 92				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

6/9/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-18	NEA ID:	AC01783
MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 107	µg/g	6/2/99	
Aroclor 1221	ND	0 107	µg/g	6/2/99	
Aroclor 1232	ND	0 107	µg/g	6/2/99	
Aroclor 1242	ND	0 107	µg/g	6/2/99	
Aroclor 1248	ND	0 107	µg/g	6/2/99	
Aroclor 1254	2 31	0 107	µg/g	6/2/99	
Aroclor 1260	0 395	0 107	µg/g	6/2/99	
Total PCB Amount > Reporting Limit	2 71				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/9/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-19	NEA ID:	AC01784
MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

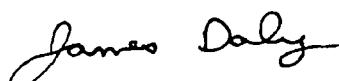
PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.054	µg/g	6/2/99	
Aroclor 1221	ND	0.054	µg/g	6/2/99	
Aroclor 1232	ND	0.054	µg/g	6/2/99	
Aroclor 1242	ND	0.054	µg/g	6/2/99	
Aroclor 1248	ND	0.054	µg/g	6/2/99	
Aroclor 1254	0.950	0.054	µg/g	6/2/99	
Aroclor 1260	0.242	0.054	µg/g	6/2/99	
Total PCB Amount > Reporting Limit	1.19				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

6/9/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-20	NEA ID:	AC01785
MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	6/3/99
Aroclor 1221	ND	0.051	µg/g	6/3/99
Aroclor 1232	ND	0.051	µg/g	6/3/99
Aroclor 1242	ND	0.051	µg/g	6/3/99
Aroclor 1248	ND	0.051	µg/g	6/3/99
Aroclor 1254	1.23	0.051	µg/g	6/3/99
Aroclor 1260	0.239	0.051	µg/g	6/3/99
Total PCB Amount > Reporting Limit	1.47			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

6/9/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-21	NEA ID:	AC01786
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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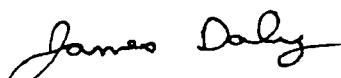
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 055	µg/g	6/3/99
Aroclor 1221	ND	0 055	µg/g	6/3/99
Aroclor 1232	ND	0 055	µg/g	6/3/99
Aroclor 1242	ND	0 055	µg/g	6/3/99
Aroclor 1248	ND	0 055	µg/g	6/3/99
Aroclor 1254	0 655	0 055	µg/g	6/3/99
Aroclor 1260	0 151	0 055	µg/g	6/3/99
Total PCB Amount > Reporting Limit	0 806			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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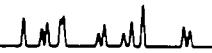
Robert E Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-22	NEA ID:	AC01787
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	6/4/99
Aroclor 1221	ND	0.051	µg/g	6/4/99
Aroclor 1232	ND	0.051	µg/g	6/4/99
Aroclor 1242	ND	0.051	µg/g	6/4/99
Aroclor 1248	ND	0.051	µg/g	6/4/99
Aroclor 1254	0.547	0.051	µg/g	6/4/99
Aroclor 1260	0.141	0.051	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0.688			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-23	NEA ID:	AC01788
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

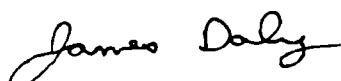
Aroclor 1016	ND	0.054	µg/g	6/4/99
Aroclor 1221	ND	0.054	µg/g	6/4/99
Aroclor 1232	ND	0.054	µg/g	6/4/99
Aroclor 1242	ND	0.054	µg/g	6/4/99
Aroclor 1248	ND	0.054	µg/g	6/4/99
Aroclor 1254	0.573	0.054	µg/g	6/4/99
Aroclor 1260	0.207	0.054	µg/g	6/4/99

Total PCB Amount > Reporting Limit 0.78

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-24	NEA ID:	AC01789
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 054	µg/g	6/4/99
Aroclor 1221	ND	0 054	µg/g	6/4/99
Aroclor 1232	ND	0 054	µg/g	6/4/99
Aroclor 1242	ND	0 054	µg/g	6/4/99
Aroclor 1248	ND	0 054	µg/g	6/4/99
Aroclor 1254	0 384	0 054	µg/g	6/4/99
Aroclor 1260	0 097	0 054	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0 481			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

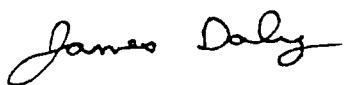
CUSTOMER ID:	SV107-25	NEA ID:	AC01531
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.154	µg/g	4/29/99	
Aroclor 1221	ND	0.154	µg/g	4/29/99	
Aroclor 1232	ND	0.154	µg/g	4/29/99	
Aroclor 1242	ND	0.154	µg/g	4/29/99	
Aroclor 1248	ND	0.154	µg/g	4/29/99	
Aroclor 1254	3.82	0.154	µg/g	4/29/99	
Aroclor 1260	0.673	0.154	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	4.49				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-26	NEA ID:	AC01532
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

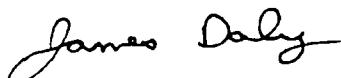
Aroclor 1016	ND	0.051	µg/g	4/29/99
Aroclor 1221	ND	0.051	µg/g	4/29/99
Aroclor 1232	ND	0.051	µg/g	4/29/99
Aroclor 1242	ND	0.051	µg/g	4/29/99
Aroclor 1248	ND	0.051	µg/g	4/29/99
Aroclor 1254	1.89	0.051	µg/g	4/29/99
Aroclor 1260	0.299	0.051	µg/g	4/29/99

Total PCB Amount > Reporting Limit 2.19

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV107-27	NEA ID:	AC01533
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.207	µg/g	4/29/99	
Aroclor 1221	ND	0.207	µg/g	4/29/99	
Aroclor 1232	ND	0.207	µg/g	4/29/99	
Aroclor 1242	ND	0.207	µg/g	4/29/99	
Aroclor 1248	ND	0.207	µg/g	4/29/99	
Aroclor 1254	4.46	0.207	µg/g	4/29/99	
Aroclor 1260	0.549	0.207	µg/g	4/29/99	
Total PCB Amount > Reporting Limit	5.01				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-01	NEA ID:	AC01544
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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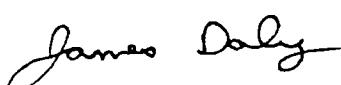
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 101	µg/g	5/17/99
Aroclor 1221	ND	0 101	µg/g	5/17/99
Aroclor 1232	ND	0 101	µg/g	5/17/99
Aroclor 1242	ND	0 101	µg/g	5/17/99
Aroclor 1248	ND	0 101	µg/g	5/17/99
Aroclor 1254	2 40	0 101	µg/g	5/17/99
Aroclor 1260	0 414	0 101	µg/g	5/17/99
Total PCB Amount > Reporting Limit	2 81			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

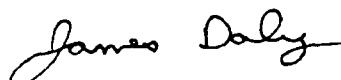
CUSTOMER ID:	SV532-02	NEA ID:	AC01545
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.205	µg/g	5/17/99	
Aroclor 1221	ND	0.205	µg/g	5/17/99	
Aroclor 1232	ND	0.205	µg/g	5/17/99	
Aroclor 1242	ND	0.205	µg/g	5/17/99	
Aroclor 1248	ND	0.205	µg/g	5/17/99	
Aroclor 1254	5.78	0.205	µg/g	5/17/99	
Aroclor 1260	0.850	0.205	µg/g	5/17/99	
Total PCB Amount > Reporting Limit	6.63				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert F. Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

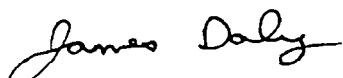
CUSTOMER ID:	SV532-03	NEA ID:	AC01546
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	5/17/99	
Aroclor 1221	ND	0 103	µg/g	5/17/99	
Aroclor 1232	ND	0 103	µg/g	5/17/99	
Aroclor 1242	ND	0 103	µg/g	5/17/99	
Aroclor 1248	ND	0 103	µg/g	5/17/99	
Aroclor 1254	2 07	0 103	µg/g	5/17/99	
Aroclor 1260	0 471	0 103	µg/g	5/17/99	
Total PCB Amount > Reporting Limit	2 54				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert F. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-04	NEA ID:	AC01547
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 155	µg/g	5/17/99	
Aroclor 1221	ND	0 155	µg/g	5/17/99	
Aroclor 1232	ND	0 155	µg/g	5/17/99	
Aroclor 1242	ND	0 155	µg/g	5/17/99	
Aroclor 1248	ND	0 155	µg/g	5/17/99	
Aroclor 1254	4 09	0 155	µg/g	5/17/99	
Aroclor 1260	0 929	0 155	µg/g	5/17/99	
Total PCB Amount > Reporting Limit	5 02				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-05	NEA ID:	AC01548
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 104	µg/g	5/17/99	
Aroclor 1221	ND	0 104	µg/g	5/17/99	
Aroclor 1232	ND	0 104	µg/g	5/17/99	
Aroclor 1242	ND	0 104	µg/g	5/17/99	
Aroclor 1248	ND	0 104	µg/g	5/17/99	
Aroclor 1254	2 56	0 104	µg/g	5/17/99	
Aroclor 1260	0 432	0 104	µg/g	5/17/99	
Total PCB Amount > Reporting Limit	2 99				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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SUITE 228
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CONTACT: JIM ORR

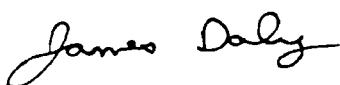
CUSTOMER ID:	SV532-06	NEA ID:	AC01549
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
PROJECT:	4517	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 156	µg/g	5/18/99	
Aroclor 1221	ND	0 156	µg/g	5/18/99	
Aroclor 1232	ND	0 156	µg/g	5/18/99	
Aroclor 1242	ND	0 156	µg/g	5/18/99	
Aroclor 1248	ND	0 156	µg/g	5/18/99	
Aroclor 1254	3.57	0 156	µg/g	5/18/99	
Aroclor 1260	0.817	0 156	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	4.39				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-07	NEA ID:	AC01550
MATRIX :	FISH	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	5/18/99	
Aroclor 1221	ND	0.051	µg/g	5/18/99	
Aroclor 1232	ND	0.051	µg/g	5/18/99	
Aroclor 1242	ND	0.051	µg/g	5/18/99	
Aroclor 1248	ND	0.051	µg/g	5/18/99	
Aroclor 1254	0.400	0.051	µg/g	5/18/99	
Aroclor 1260	0.094	0.051	µg/g	5/18/99	
Total PCB Amount > Reporting Limit	0.494				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

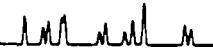
Northeast Analytical Inc
Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-08	NEA ID:	AC01588
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 256	µg/g	5/19/99	
Aroclor 1221	ND	0 256	µg/g	5/19/99	
Aroclor 1232	ND	0 256	µg/g	5/19/99	
Aroclor 1242	ND	0 256	µg/g	5/19/99	
Aroclor 1248	ND	0 256	µg/g	5/19/99	
Aroclor 1254	6 28	0 256	µg/g	5/19/99	
Aroclor 1260	1 13	0 256	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	7 41				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-09	NEA ID:	AC01589
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 104	µg/g	5/19/99
Aroclor 1221	ND	0 104	µg/g	5/19/99
Aroclor 1232	ND	0 104	µg/g	5/19/99
Aroclor 1242	ND	0 104	µg/g	5/19/99
Aroclor 1248	ND	0 104	µg/g	5/19/99
Aroclor 1254	2 18	0 104	µg/g	5/19/99
Aroclor 1260	0 371	0 104	µg/g	5/19/99
Total PCB Amount > Reporting Limit	2 55			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-10	NEA ID:	AC01590
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/g	5/21/99	
Aroclor 1221	ND	0 050	µg/g	5/21/99	
Aroclor 1232	ND	0 050	µg/g	5/21/99	
Aroclor 1242	ND	0 050	µg/g	5/21/99	
Aroclor 1248	ND	0 050	µg/g	5/21/99	
Aroclor 1254	1 12	0 050	µg/g	5/21/99	
Aroclor 1260	0 289	0 050	µg/g	5/21/99	
Total PCB Amount > Reporting Limit	1 41				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-11	NEA ID:	AC01591
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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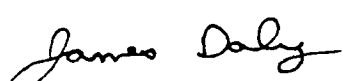
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 102	µg/g	5/19/99
Aroclor 1221	ND	0 102	µg/g	5/19/99
Aroclor 1232	ND	0 102	µg/g	5/19/99
Aroclor 1242	ND	0 102	µg/g	5/19/99
Aroclor 1248	ND	0 102	µg/g	5/19/99
Aroclor 1254	3 12	0 102	µg/g	5/19/99
Aroclor 1260	0 586	0 102	µg/g	5/19/99
Total PCB Amount > Reporting Limit	3 71			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-12	NEA ID:	AC01592
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	5/19/99
Aroclor 1221	ND	0.052	µg/g	5/19/99
Aroclor 1232	ND	0.052	µg/g	5/19/99
Aroclor 1242	ND	0.052	µg/g	5/19/99
Aroclor 1248	ND	0.052	µg/g	5/19/99
Aroclor 1254	1.41	0.052	µg/g	5/19/99
Aroclor 1260	0.263	0.052	µg/g	5/19/99

Total PCB Amount > Reporting Limit 1.67

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

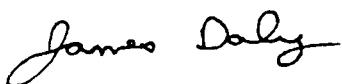
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MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/19/99	
Aroclor 1221	ND	0 051	µg/g	5/19/99	
Aroclor 1232	ND	0 051	µg/g	5/19/99	
Aroclor 1242	ND	0 051	µg/g	5'19'99	
Aroclor 1248	ND	0 051	µg/g	5/19/99	
Aroclor 1254	0 258	0 051	µg/g	5/19/99	
Aroclor 1260	0 060	0 051	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	0 318				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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CONTACT: JIM ORR

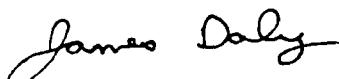
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MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/21/99	
Aroclor 1221	ND	0 051	µg/g	5/21/99	
Aroclor 1232	ND	0 051	µg/g	5/21/99	
Aroclor 1242	ND	0 051	µg/g	5/21/99	
Aroclor 1248	ND	0 051	µg/g	5/21/99	
Aroclor 1254	0 484	0 051	µg/g	5/21/99	
Aroclor 1260	0 105	0 051	µg/g	5/21/99	
Total PCB Amount > Reporting Limit	0 589				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

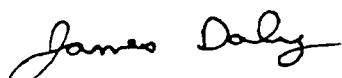
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MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9:00
SAMPLED BY:	J. ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.101	µg/g	5/19/99	
Aroclor 1221	ND	0.101	µg/g	5/19/99	
Aroclor 1232	ND	0.101	µg/g	5/19/99	
Aroclor 1242	ND	0.101	µg/g	5/19/99	
Aroclor 1248	ND	0.101	µg/g	5/19/99	
Aroclor 1254	1.98	0.101	µg/g	5/19/99	
Aroclor 1260	0.418	0.101	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	2.40				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-15	NEA ID:	AC01595
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 053	µg/g	5/19/99
Aroclor 1221	ND	0 053	µg/g	5/19/99
Aroclor 1232	ND	0 053	µg/g	5/19/99
Aroclor 1242	ND	0 053	µg/g	5/19/99
Aroclor 1248	ND	0 053	µg/g	5/19/99
Aroclor 1254	1 50	0 053	µg/g	5/19/99
Aroclor 1260	0 535	0 053	µg/g	5/19/99
Total PCB Amount > Reporting Limit	2 04			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-16	NEA ID:	AC01596
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/g	5/19/99	
Aroclor 1221	ND	0 050	µg/g	5/19/99	
Aroclor 1232	ND	0 050	µg/g	5/19/99	
Aroclor 1242	ND	0 050	µg/g	5/19/99	
Aroclor 1248	ND	0 050	µg/g	5/19/99	
Aroclor 1254	1 22	0 050	µg/g	5/19/99	
Aroclor 1260	0 348	0 050	µg/g	5/19/99	
Total PCB Amount > Reporting Limit	1 57				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-17	NEA ID:	AC01597
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/20/99
Aroclor 1221	ND	0 051	µg/g	5/20/99
Aroclor 1232	ND	0 051	µg/g	5/20/99
Aroclor 1242	ND	0 051	µg/g	5/20/99
Aroclor 1248	ND	0 051	µg/g	5/20/99
Aroclor 1254	0 314	0 051	µg/g	5/20/99
Aroclor 1260	0 180	0 051	µg/g	5/20/99
Total PCB Amount > Reporting Limit	0 494			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-18	NEA ID:	AC01598
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTFD	FLAGS
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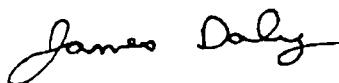
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 105	µg/g	5/20/99
Aroclor 1221	ND	0 105	µg/g	5/20/99
Aroclor 1232	ND	0 105	µg/g	5/20/99
Aroclor 1242	ND	0 105	µg/g	5/20/99
Aroclor 1248	ND	0 105	µg/g	5/20/99
Aroclor 1254	2 18	0 105	µg/g	5/20/99
Aroclor 1260	0 449	0 105	µg/g	5/20/99
Total PCB Amount > Reporting Limit	2 63			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-19	NEA ID:	AC01599
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/20/99	
Aroclor 1221	ND	0 052	µg/g	5/20/99	
Aroclor 1232	ND	0 052	µg/g	5/20/99	
Aroclor 1242	ND	0 052	µg/g	5/20/99	
Aroclor 1248	ND	0 052	µg/g	5/20/99	
Aroclor 1254	0 623	0 052	µg/g	5/20/99	
Aroclor 1260	0 206	0 052	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 829				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-20	NEA ID:	AC01600
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 053	µg/g	5/20/99	
Aroclor 1221	ND	0 053	µg/g	5/20/99	
Aroclor 1232	ND	0 053	µg/g	5/20/99	
Aroclor 1242	ND	0 053	µg/g	5/20/99	
Aroclor 1248	ND	0 053	µg/g	5/20/99	
Aroclor 1254	0 522	0 053	µg/g	5/20/99	
Aroclor 1260	0 148	0 053	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 67				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-21	NEA ID:	AC01601
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.052	µg/g	5/20/99	
Aroclor 1221	ND	0.052	µg/g	5/20/99	
Aroclor 1232	ND	0.052	µg/g	5/20/99	
Aroclor 1242	ND	0.052	µg/g	5/20/99	
Aroclor 1248	ND	0.052	µg/g	5/20/99	
Aroclor 1254	1.06	0.052	µg/g	5/20/99	
Aroclor 1260	0.185	0.052	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	1.25				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-22 NEA ID: AC01602

MATRIX : FISH DATE SAMPLED: 4/21/99 TIME: N/A

DATE RECEIVED: 4/23/99 TIME: 9 00 PROJECT: 4517

SAMPLED BY: J ORR LOCATION: LAKE HARTWELL SC

CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	5/20/99
Aroclor 1221	ND	0.051	µg/g	5/20/99
Aroclor 1232	ND	0.051	µg/g	5/20/99
Aroclor 1242	ND	0.051	µg/g	5/20/99
Aroclor 1248	ND	0.051	µg/g	5/20/99
Aroclor 1254	1.28	0.051	µg/g	5/20/99
Aroclor 1260	0.257	0.051	µg/g	5/20/99
Total PCB Amount > Reporting Limit	1.54			

Note ND (Not Detected) Denotes analytic not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV532-23	NEA ID:	AC01603
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

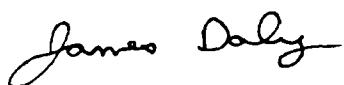
Aroclor 1016	ND	0 052	µg/g	5/20/99
Aroclor 1221	ND	0 052	µg/g	5/20/99
Aroclor 1232	ND	0 052	µg/g	5/20/99
Aroclor 1242	ND	0 052	µg/g	5/20/99
Aroclor 1248	ND	0 052	µg/g	5/20/99
Aroclor 1254	0 967	0 052	µg/g	5/20/99
Aroclor 1260	0 280	0 052	µg/g	5/20/99

Total PCB Amount > Reporting Limit 1 25

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

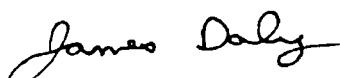
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MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/20/99	
Aroclor 1221	ND	0 051	µg/g	5/20/99	
Aroclor 1232	ND	0 051	µg/g	5/20/99	
Aroclor 1242	ND	0 051	µg/g	5/20/99	
Aroclor 1248	ND	0 051	µg/g	5/20/99	
Aroclor 1254	0 941	0 051	µg/g	5/20/99	
Aroclor 1260	0 192	0 051	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	1 13				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

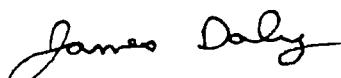
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MATRIX :	FISH	DATE SAMPLED:	4/21/99 TIME: N/A
DATE RECEIVED:	4/23/99	TIME: 9 00	PROJECT: 4517
SAMPLED BY:	J ORR	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/20/99	
Aroclor 1221	ND	0 051	µg/g	5/20/99	
Aroclor 1232	ND	0 051	µg/g	5/20/99	
Aroclor 1242	ND	0 051	µg/g	5/20/99	
Aroclor 1248	ND	0 051	µg/g	5/20/99	
Aroclor 1254	0 605	0 051	µg/g	5/20/99	
Aroclor 1260	0 137	0 051	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 742				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-532-26	NEA ID:	AC02321
MATRIX :	FISH	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 105	µg/g	6/5/99
Aroclor 1221	ND	0 105	µg/g	6/5/99
Aroclor 1232	ND	0 105	µg/g	6/5/99
Aroclor 1242	ND	0 105	µg/g	6/5/99
Aroclor 1248	ND	0 105	µg/g	6/5/99
Aroclor 1254	1 47	0 105	µg/g	6/5/99
Aroclor 1260	0 282	0 105	µg/g	6/5/99
Total PCB Amount > Reporting Limit	1 75			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-532-27	NEA ID:	AC02322
MATRIX :	FISH	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.054	µg/g	6/5/99	
Aroclor 1221	ND	0.054	µg/g	6/5/99	
Aroclor 1232	ND	0.054	µg/g	6/5/99	
Aroclor 1242	ND	0.054	µg/g	6/5/99	
Aroclor 1248	ND	0.054	µg/g	6/5/99	
Aroclor 1254	0.764	0.054	µg/g	6/5/99	
Aroclor 1260	0.213	0.054	µg/g	6/5/99	
Total PCB Amount > Reporting Limit	0.977				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-01	NEA ID:	AC01606
MATRIX :	FISH	DATE SAMPLED:	4/21/99 TIME: N/A
DATE RECEIVED:	4/23/99	TIME:	9 00 PROJECT: 4517
SAMPLED BY:	J ORR	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/20/99	
Aroclor 1221	ND	0 052	µg/g	5/20/99	
Aroclor 1232	ND	0 052	µg/g	5/20/99	
Aroclor 1242	ND	0 052	µg/g	5/20/99	
Aroclor 1248	ND	0 052	µg/g	5/20/99	
Aroclor 1254	0 470	0 052	µg/g	5/20/99	
Aroclor 1260	0 212	0 052	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 682				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert E Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-02	NEA ID:	AC01607
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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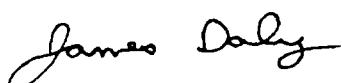
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 053	µg/g	5/20/99
Aroclor 1221	ND	0 053	µg/g	5/20/99
Aroclor 1232	ND	0 053	µg/g	5/20/99
Aroclor 1242	ND	0 053	µg/g	5/20/99
Aroclor 1248	ND	0 053	µg/g	5/20/99
Aroclor 1254	0 205	0 053	µg/g	5/20/99
Aroclor 1260	0 077	0 053	µg/g	5/20/99
Total PCB Amount > Reporting Limit	0 282			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-03	NEA ID:	AC01608
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/20/99	
Aroclor 1221	ND	0 052	µg/g	5/20/99	
Aroclor 1232	ND	0 052	µg/g	5/20/99	
Aroclor 1242	ND	0 052	µg/g	5/20/99	
Aroclor 1248	ND	0 052	µg/g	5/20/99	
Aroclor 1254	0 406	0 052	µg/g	5/20/99	
Aroclor 1260	0 224	0 052	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 63				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-04	NEA ID:	AC01609
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/g	5/20/99	
Aroclor 1221	ND	0 050	µg/g	5/20/99	
Aroclor 1232	ND	0 050	µg/g	5/20/99	
Aroclor 1242	ND	0 050	µg/g	5/20/99	
Aroclor 1248	ND	0 050	µg/g	5/20/99	
Aroclor 1254	0 766	0 050	µg/g	5/20/99	
Aroclor 1260	0 330	0 050	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	1 10				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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SUITE 228
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CONTACT: JIM ORR

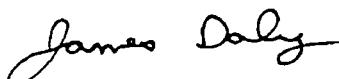
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DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/g	5/20/99	
Aroclor 1221	ND	0 050	µg/g	5/20/99	
Aroclor 1232	ND	0 050	µg/g	5/20/99	
Aroclor 1242	ND	0 050	µg/g	5/20/99	
Aroclor 1248	ND	0 050	µg/g	5/20/99	
Aroclor 1254	0 571	0 050	µg/g	5/20/99	
Aroclor 1260	0 247	0 050	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0 818				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

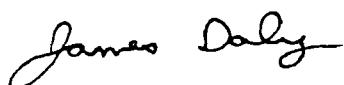
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MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	5/20/99	
Aroclor 1221	ND	0.051	µg/g	5/20/99	
Aroclor 1232	ND	0.051	µg/g	5/20/99	
Aroclor 1242	ND	0.051	µg/g	5/20/99	
Aroclor 1248	ND	0.051	µg/g	5/20/99	
Aroclor 1254	0.289	0.051	µg/g	5/20/99	
Aroclor 1260	0.173	0.051	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	0.462				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-07	NEA ID:	AC01612
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	5/20/99	
Aroclor 1221	ND	0.051	µg/g	5/20/99	
Aroclor 1232	ND	0.051	µg/g	5/20/99	
Aroclor 1242	ND	0.051	µg/g	5/20/99	
Aroclor 1248	ND	0.051	µg/g	5/20/99	
Aroclor 1254	0.944	0.051	µg/g	5/20/99	
Aroclor 1260	0.429	0.051	µg/g	5/20/99	
Total PCB Amount > Reporting Limit	1.37				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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6/2/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

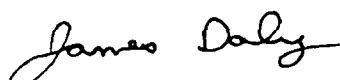
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DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/21/99	
Aroclor 1221	ND	0 052	µg/g	5/21/99	
Aroclor 1232	ND	0 052	µg/g	5/21/99	
Aroclor 1242	ND	0 052	µg/g	5/21/99	
Aroclor 1248	ND	0 052	µg/g	5/21/99	
Aroclor 1254	0 260	0 052	µg/g	5/21/99	
Aroclor 1260	0 152	0 052	µg/g	5/21/99	
Total PCB Amount > Reporting Limit	0 412				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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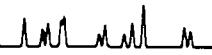
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-09	NEA ID:	AC01614
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/21/99
Aroclor 1221	ND	0 051	µg/g	5/21/99
Aroclor 1232	ND	0 051	µg/g	5/21/99
Aroclor 1242	ND	0 051	µg/g	5/21/99
Aroclor 1248	ND	0 051	µg/g	5/21/99
Aroclor 1254	0 647	0 051	µg/g	5/21/99
Aroclor 1260	0 329	0 051	µg/g	5/21/99
Total PCB Amount > Reporting Limit	0 976			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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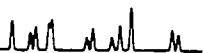
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-10	NEA ID:	AC01615
MATRIX :	FISH	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 052	µg/g	5/21/99
Aroclor 1221	ND	0 052	µg/g	5/21/99
Aroclor 1232	ND	0 052	µg/g	5/21/99
Aroclor 1242	ND	0 052	µg/g	5/21/99
Aroclor 1248	ND	0 052	µg/g	5/21/99
Aroclor 1254	0 166	0 052	µg/g	5/21/99
Aroclor 1260	0 089	0 052	µg/g	5/21/99
Total PCB Amount > Reporting Limit	0 255			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-11	NEA ID:	AC01625
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 101	µg/g	5/28/99	
Aroclor 1221	ND	0 101	µg/g	5/28/99	
Aroclor 1232	ND	0 101	µg/g	5/28/99	
Aroclor 1242	ND	0 101	µg/g	5/28/99	
Aroclor 1248	ND	0 101	µg/g	5/28/99	
Aroclor 1254	1 67	0 101	µg/g	5/28/99	
Aroclor 1260	0 430	0 101	µg/g	5/28/99	
Total PCB Amount > Reporting Limit	2 10				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-12	NEA ID:	AC01626
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 104	µg/g	5/28/99	
Aroclor 1221	ND	0 104	µg/g	5/28/99	
Aroclor 1232	ND	0 104	µg/g	5/28/99	
Aroclor 1242	ND	0 104	µg/g	5/28/99	
Aroclor 1248	ND	0 104	µg/g	5/28/99	
Aroclor 1254	1 08	0 104	µg/g	5/28/99	
Aroclor 1260	0 269	0 104	µg/g	5/28/99	
Total PCB Amount > Reporting Limit	1 35				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-13	NEA ID:	AC01627
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/28/99	
Aroclor 1221	ND	0 052	µg/g	5/28/99	
Aroclor 1232	ND	0 052	µg/g	5/28/99	
Aroclor 1242	ND	0 052	µg/g	5/28/99	
Aroclor 1248	ND	0 052	µg/g	5/28/99	
Aroclor 1254	0 794	0 052	µg/g	5/28/99	
Aroclor 1260	0 180	0 052	µg/g	5/28/99	
Total PCB Amount > Reporting Limit	0 974				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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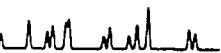
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-14	NEA ID:	AC01628
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	5/28/99
Aroclor 1221	ND	0.051	µg/g	5/28/99
Aroclor 1232	ND	0.051	µg/g	5/28/99
Aroclor 1242	ND	0.051	µg/g	5/28/99
Aroclor 1248	ND	0.051	µg/g	5/28/99
Aroclor 1254	0.940	0.051	µg/g	5/28/99
Aroclor 1260	0.252	0.051	µg/g	5/28/99
Total PCB Amount > Reporting Limit	1.19			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert F Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-15	NEA ID:	AC01629
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/28/99	
Aroclor 1221	ND	0 051	µg/g	5/28/99	
Aroclor 1232	ND	0 051	µg/g	5/28/99	
Aroclor 1242	ND	0 051	µg/g	5/28/99	
Aroclor 1248	ND	0 051	µg/g	5/28/99	
Aroclor 1254	0 409	0 051	µg/g	5/28/99	
Aroclor 1260	0 106	0 051	µg/g	5/28/99	
Total PCB Amount > Reporting Limit	0 515				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert L. Wagner Laboratory Director

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ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

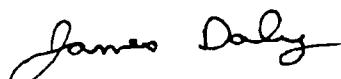
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SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	5/28/99	
Aroclor 1221	ND	0.051	µg/g	5/28/99	
Aroclor 1232	ND	0.051	µg/g	5/28/99	
Aroclor 1242	ND	0.051	µg/g	5/28/99	
Aroclor 1248	ND	0.051	µg/g	5/28/99	
Aroclor 1254	0.101	0.051	µg/g	5/28/99	
Aroclor 1260	ND	0.051	µg/g	5/28/99	
Total PCB Amount > Reporting Limit	0.101				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

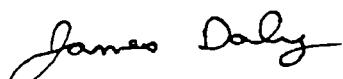
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DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/29/99	
Aroclor 1221	ND	0 052	µg/g	5/29/99	
Aroclor 1232	ND	0 052	µg/g	5/29/99	
Aroclor 1242	ND	0 052	µg/g	5/29/99	
Aroclor 1248	ND	0 052	µg/g	5/29/99	
Aroclor 1254	0 217	0 052	µg/g	5/29/99	
Aroclor 1260	0 059	0 052	µg/g	5/29/99	
Total PCB Amount > Reporting Limit	0 276				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-18	NEA ID:	AC01632
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 052	µg/g	5/29/99
Aroclor 1221	ND	0 052	µg/g	5/29/99
Aroclor 1232	ND	0 052	µg/g	5/29/99
Aroclor 1242	ND	0 052	µg/g	5/29/99
Aroclor 1248	ND	0 052	µg/g	5/29/99
Aroclor 1254	0 533	0 052	µg/g	5/29/99
Aroclor 1260	0 126	0 052	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0 659			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-20	NEA ID:	AC01657
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/30/99	
Aroclor 1221	ND	0 052	µg/g	5/30/99	
Aroclor 1232	ND	0 052	µg/g	5/30/99	
Aroclor 1242	ND	0 052	µg/g	5/30/99	
Aroclor 1248	ND	0 052	µg/g	5/30/99	
Aroclor 1254	1 07	0 052	µg/g	5/30/99	
Aroclor 1260	0 289	0 052	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	1 36				

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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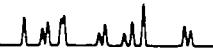
Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-21	NEA ID:	AC01658
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 053	µg/g	5/30/99	
Aroclor 1221	ND	0 053	µg/g	5/30/99	
Aroclor 1232	ND	0 053	µg/g	5/30/99	
Aroclor 1242	ND	0 053	µg/g	5/30/99	
Aroclor 1248	ND	0 053	µg/g	5/30/99	
Aroclor 1254	0 542	0 053	µg/g	5/30/99	
Aroclor 1260	0 133	0 053	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0 675				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV535-22	NEA ID:	AC01792
MATRIX:	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

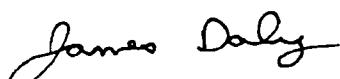
Aroclor 1016	ND	0.054	µg/g	6/4/99
Aroclor 1221	ND	0.054	µg/g	6/4/99
Aroclor 1232	ND	0.054	µg/g	6/4/99
Aroclor 1242	ND	0.054	µg/g	6/4/99
Aroclor 1248	ND	0.054	µg/g	6/4/99
Aroclor 1254	0.831	0.054	µg/g	6/4/99
Aroclor 1260	0.222	0.054	µg/g	6/4/99

Total PCB Amount > Reporting Limit 1.05

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/9/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-535-23	NEA ID:	AC02311
MATRIX :	FISH	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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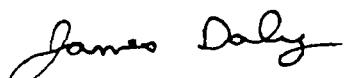
SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 054	µg/g	6/4/99
Aroclor 1221	ND	0 054	µg/g	6/4/99
Aroclor 1232	ND	0 054	µg/g	6/4/99
Aroclor 1242	ND	0 054	µg/g	6/4/99
Aroclor 1248	ND	0 054	µg/g	6/4/99
Aroclor 1254	0 417	0 054	µg/g	6/4/99
Aroclor 1260	0 099	0 054	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0 516			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

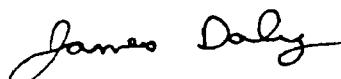
CUSTOMER ID:	SV-535-24	NEA ID:	AC02312
MATRIX :	FISH	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	6/5/99	
Aroclor 1221	ND	0 052	µg/g	6/5/99	
Aroclor 1232	ND	0 052	µg/g	6/5/99	
Aroclor 1242	ND	0 052	µg/g	6/5/99	
Aroclor 1248	ND	0 052	µg/g	6/5/99	
Aroclor 1254	1 03	0 052	µg/g	6/5/99	
Aroclor 1260	0 247	0 052	µg/g	6/5/99	
Total PCB Amount > Reporting Limit	1 28				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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Robert E Wagner Laboratory Director

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ERMI- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-535-25	NEA ID:	AC02329
MATRIX :	FISH	DATE SAMPLED:	5/13/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	6/5/99
Aroclor 1221	ND	0.052	µg/g	6/5/99
Aroclor 1232	ND	0.052	µg/g	6/5/99
Aroclor 1242	ND	0.052	µg/g	6/5/99
Aroclor 1248	ND	0.052	µg/g	6/5/99
Aroclor 1254	0.296	0.052	µg/g	6/5/99
Aroclor 1260	0.052	0.052	µg/g	6/5/99
Total PCB Amount > Reporting Limit	0.348			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-01	NEA ID:	AC01644
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	5/29/99
Aroclor 1221	ND	0.055	µg/g	5/29/99
Aroclor 1232	ND	0.055	µg/g	5/29/99
Aroclor 1242	ND	0.055	µg/g	5/29/99
Aroclor 1248	ND	0.055	µg/g	5/29/99
Aroclor 1254	ND	0.055	µg/g	5/29/99
Aroclor 1260	ND	0.055	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-02	NEA ID:	AC01645
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/30/99	
Aroclor 1221	ND	0 051	µg/g	5/30/99	
Aroclor 1232	ND	0 051	µg/g	5/30/99	
Aroclor 1242	ND	0 051	µg/g	5/30/99	
Aroclor 1248	ND	0 051	µg/g	5/30/99	
Aroclor 1254	0 109	0 051	µg/g	5/30/99	
Aroclor 1260	0 083	0 051	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0 192				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-03	NEA ID:	AC01646
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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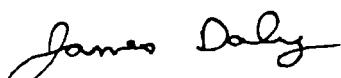
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/g	5/30/99
Aroclor 1221	ND	0.054	µg/g	5/30/99
Aroclor 1232	ND	0.054	µg/g	5/30/99
Aroclor 1242	ND	0.054	µg/g	5/30/99
Aroclor 1248	ND	0.054	µg/g	5/30/99
Aroclor 1254	ND	0.054	µg/g	5/30/99
Aroclor 1260	ND	0.054	µg/g	5/30/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc
Robert L. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-04	NEA ID:	AC01647
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	5/30/99
Aroclor 1221	ND	0.052	µg/g	5/30/99
Aroclor 1232	ND	0.052	µg/g	5/30/99
Aroclor 1242	ND	0.052	µg/g	5/30/99
Aroclor 1248	ND	0.052	µg/g	5/30/99
Aroclor 1254	0.077	0.052	µg/g	5/30/99
Aroclor 1260	ND	0.052	µg/g	5/30/99

Total PCB Amount > Reporting Limit 0.077

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-05	NEA ID:	AC01648
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	5/30/99
Aroclor 1221	ND	0.051	µg/g	5/30/99
Aroclor 1232	ND	0.051	µg/g	5/30/99
Aroclor 1242	ND	0.051	µg/g	5/30/99
Aroclor 1248	ND	0.051	µg/g	5/30/99
Aroclor 1254	ND	0.051	µg/g	5/30/99
Aroclor 1260	ND	0.051	µg/g	5/30/99

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-06	NEA ID:	AC01649
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.052	µg/g	5/30/99	
Aroclor 1221	ND	0.052	µg/g	5/30/99	
Aroclor 1232	ND	0.052	µg/g	5/30/99	
Aroclor 1242	ND	0.052	µg/g	5/30/99	
Aroclor 1248	ND	0.052	µg/g	5/30/99	
Aroclor 1254	ND	0.052	µg/g	5/30/99	
Aroclor 1260	ND	0.052	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-07	NEA ID:	AC01650
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 054	µg/g	5/30/99
Aroclor 1221	ND	0 054	µg/g	5/30/99
Aroclor 1232	ND	0 054	µg/g	5/30/99
Aroclor 1242	ND	0 054	µg/g	5/30/99
Aroclor 1248	ND	0 054	µg/g	5/30/99
Aroclor 1254	0 076	0 054	µg/g	5/30/99
Aroclor 1260	ND	0 054	µg/g	5/30/99
Total PCB Amount > Reporting Limit	0 076			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-08	NEA ID:	AC01651
MATRIX :	FISH	DATE SAMPLED:	4/22/99 TIME: N/A
DATE RECEIVED:	4/27/99	TIME:	10 00 PROJECT: 4517
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	5/30/99
Aroclor 1221	ND	0 051	µg/g	5/30/99
Aroclor 1232	ND	0 051	µg/g	5/30/99
Aroclor 1242	ND	0 051	µg/g	5/30/99
Aroclor 1248	ND	0 051	µg/g	5/30/99
Aroclor 1254	0 059	0 051	µg/g	5/30/99
Aroclor 1260	ND	0 051	µg/g	5/30/99
Total PCB Amount > Reporting Limit	0 059			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-09	NEA ID:	AC01652
MATRIX :	FISH	DATE SAMPLED:	4/22/99 TIME: N/A
DATE RECEIVED:	4/27/99	TIME:	10 00 PROJECT: 4517
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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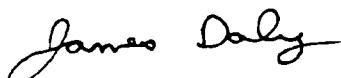
SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0 050	µg/g	5/30/99
Aroclor 1221	ND	0 050	µg/g	5/30/99
Aroclor 1232	ND	0 050	µg/g	5/30/99
Aroclor 1242	ND	0 050	µg/g	5/30/99
Aroclor 1248	ND	0 050	µg/g	5/30/99
Aroclor 1254	0 061	0 050	µg/g	5/30/99
Aroclor 1260	ND	0 050	µg/g	5/30/99
Total PCB Amount > Reporting Limit	0 061			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

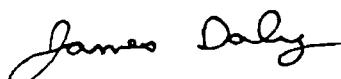
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MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.053	µg/g	5/30/99	
Aroclor 1221	ND	0.053	µg/g	5/30/99	
Aroclor 1232	ND	0.053	µg/g	5/30/99	
Aroclor 1242	ND	0.053	µg/g	5/30/99	
Aroclor 1248	ND	0.053	µg/g	5/30/99	
Aroclor 1254	0.081	0.053	µg/g	5/30/99	
Aroclor 1260	0.062	0.053	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0.143				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

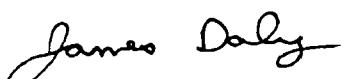
CUSTOMER ID:	SV641-11	NEA ID:	AC01654
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 053	µg/g	5/30/99	
Aroclor 1221	ND	0 053	µg/g	5/30/99	
Aroclor 1232	ND	0 053	µg/g	5/30/99	
Aroclor 1242	ND	0 053	µg/g	5/30/99	
Aroclor 1248	ND	0 053	µg/g	5/30/99	
Aroclor 1254	0 054	0 053	µg/g	5/30/99	
Aroclor 1260	ND	0 053	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0 054				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-12	NEA ID:	AC01664
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 107	µg/g	5/31/99	
Aroclor 1221	ND	0 107	µg/g	5/31/99	
Aroclor 1232	ND	0 107	µg/g	5/31/99	
Aroclor 1242	ND	0 107	µg/g	5/31/99	
Aroclor 1248	ND	0 107	µg/g	5/31/99	
Aroclor 1254	1 31	0 107	µg/g	5/31/99	
Aroclor 1260	0 308	0 107	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	1 62				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-13	NEA ID:	AC01665
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.270	µg/g	5/31/99
Aroclor 1221	ND	0.270	µg/g	5/31/99
Aroclor 1232	ND	0.270	µg/g	5/31/99
Aroclor 1242	ND	0.270	µg/g	5/31/99
Aroclor 1248	ND	0.270	µg/g	5/31/99
Aroclor 1254	6.26	0.270	µg/g	5/31/99
Aroclor 1260	1.11	0.270	µg/g	5/31/99
Total PCB Amount > Reporting Limit	7.37			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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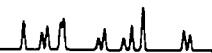
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-14	NEA ID:	AC01666
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 054	µg/g	5/31/99
Aroclor 1221	ND	0 054	µg/g	5/31/99
Aroclor 1232	ND	0 054	µg/g	5/31/99
Aroclor 1242	ND	0 054	µg/g	5/31/99
Aroclor 1248	ND	0 054	µg/g	5/31/99
Aroclor 1254	0 289	0 054	µg/g	5/31/99
Aroclor 1260	0 122	0 054	µg/g	5/31/99
Total PCB Amount > Reporting Limit	0 411			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-15	NEA ID:	AC01667
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 053	µg/g	6/1/99
Aroclor 1221	ND	0 053	µg/g	6/1/99
Aroclor 1232	ND	0 053	µg/g	6/1/99
Aroclor 1242	ND	0 053	µg/g	6/1/99
Aroclor 1248	ND	0 053	µg/g	6/1/99
Aroclor 1254	0 481	0 053	µg/g	6/1/99
Aroclor 1260	0 169	0 053	µg/g	6/1/99
Total PCB Amount > Reporting Limit	0 65			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-16 NEA ID: AC01668

MATRIX : FISH DATE SAMPLED: 4/23/99 TIME: N/A

DATE RECEIVED: 4/27/99 TIME: 10 00 PROJECT: 4517

SAMPLED BY: K BARNHILL LOCATION: LAKE HARTWELL, SC

CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	5/31/99
Aroclor 1221	ND	0.055	µg/g	5/31/99
Aroclor 1232	ND	0.055	µg/g	5/31/99
Aroclor 1242	ND	0.055	µg/g	5/31/99
Aroclor 1248	ND	0.055	µg/g	5/31/99
Aroclor 1254	0.960	0.055	µg/g	5/31/99
Aroclor 1260	0.240	0.055	µg/g	5/31/99

Total PCB Amount > Reporting Limit 1.20

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

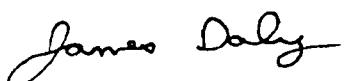
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MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.053	µg/g	5/31/99	
Aroclor 1221	ND	0.053	µg/g	5/31/99	
Aroclor 1232	ND	0.053	µg/g	5/31/99	
Aroclor 1242	ND	0.053	µg/g	5/31/99	
Aroclor 1248	ND	0.053	µg/g	5/31/99	
Aroclor 1254	0.566	0.053	µg/g	5/31/99	
Aroclor 1260	0.169	0.053	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	0.735				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-18	NEA ID:	AC01670
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 109	µg/g	5/31/99
Aroclor 1221	ND	0 109	µg/g	5/31/99
Aroclor 1232	ND	0 109	µg/g	5/31/99
Aroclor 1242	ND	0 109	µg/g	5/31/99
Aroclor 1248	ND	0 109	µg/g	5/31/99
Aroclor 1254	1 27	0 109	µg/g	5/31/99
Aroclor 1260	0 210	0 109	µg/g	5/31/99
Total PCB Amount > Reporting Limit	1 48			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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CONTACT: JIM ORR

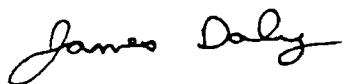
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MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.055	µg/g	5/31/99	
Aroclor 1221	ND	0.055	µg/g	5/31/99	
Aroclor 1232	ND	0.055	µg/g	5/31/99	
Aroclor 1242	ND	0.055	µg/g	5/31/99	
Aroclor 1248	ND	0.055	µg/g	5/31/99	
Aroclor 1254	0.643	0.055	µg/g	5/31/99	
Aroclor 1260	0.156	0.055	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	0.799				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

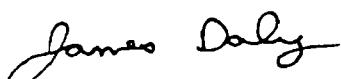
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MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	5/31/99	
Aroclor 1221	ND	0 103	µg/g	5/31/99	
Aroclor 1232	ND	0 103	µg/g	5/31/99	
Aroclor 1242	ND	0 103	µg/g	5/31/99	
Aroclor 1248	ND	0 103	µg/g	5/31/99	
Aroclor 1254	0 942	0 103	µg/g	5/31/99	
Aroclor 1260	0 295	0 103	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	1 24				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

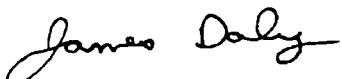
CUSTOMER ID:	SV641-21	NEA ID:	AC01673
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 103	µg/g	5/31/99	
Aroclor 1221	ND	0 103	µg/g	5/31/99	
Aroclor 1232	ND	0 103	µg/g	5/31/99	
Aroclor 1242	ND	0 103	µg/g	5/31/99	
Aroclor 1248	ND	0 103	µg/g	5/31/99	
Aroclor 1254	0 993	0 103	µg/g	5/31/99	
Aroclor 1260	0 194	0 103	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	1 19				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-22 **NEA ID:** AC01674

MATRIX : FISH **DATE SAMPLED:** 4/23/99 **TIME:** N/A

DATE RECEIVED: 4/27/99 **TIME:** 10 00 **PROJECT:** 4517

SAMPLED BY: K BARNHILL **LOCATION:** LAKE HARTWELL, SC

CUSTOMER PO: N/A **LAB ELAP #:** 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	5/31/99
Aroclor 1221	ND	0.055	µg/g	5/31/99
Aroclor 1232	ND	0.055	µg/g	5/31/99
Aroclor 1242	ND	0.055	µg/g	5/31/99
Aroclor 1248	ND	0.055	µg/g	5/31/99
Aroclor 1254	0.139	0.055	µg/g	5/31/99
Aroclor 1260	0.059	0.055	µg/g	5/31/99
Total PCB Amount > Reporting Limit	0.198			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-23	NEA ID:	AC01675
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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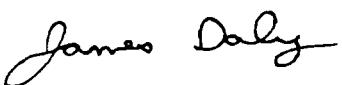
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.055	µg/g	5/31/99
Aroclor 1221	ND	0.055	µg/g	5/31/99
Aroclor 1232	ND	0.055	µg/g	5/31/99
Aroclor 1242	ND	0.055	µg/g	5/31/99
Aroclor 1248	ND	0.055	µg/g	5/31/99
Aroclor 1254	ND	0.055	µg/g	5/31/99
Aroclor 1260	ND	0.055	µg/g	5/31/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-24	NEA ID:	AC01676
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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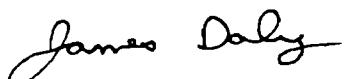
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	6/1/99
Aroclor 1221	ND	0.052	µg/g	6/1/99
Aroclor 1232	ND	0.052	µg/g	6/1/99
Aroclor 1242	ND	0.052	µg/g	6/1/99
Aroclor 1248	ND	0.052	µg/g	6/1/99
Aroclor 1254	0.163	0.052	µg/g	6/1/99
Aroclor 1260	0.079	0.052	µg/g	6/1/99
Total PCB Amount > Reporting Limit	0.242			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-25	NEA ID:	AC01796
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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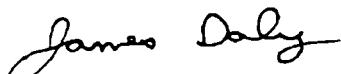
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/g	6/4/99
Aroclor 1221	ND	0.054	µg/g	6/4/99
Aroclor 1232	ND	0.054	µg/g	6/4/99
Aroclor 1242	ND	0.054	µg/g	6/4/99
Aroclor 1248	ND	0.054	µg/g	6/4/99
Aroclor 1254	ND	0.054	µg/g	6/4/99
Aroclor 1260	ND	0.054	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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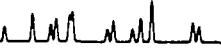
Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

6/8/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-26	NEA ID:	AC01722
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.052	µg/g	6/1/99	
Aroclor 1221	ND	0.052	µg/g	6/1/99	
Aroclor 1232	ND	0.052	µg/g	6/1/99	
Aroclor 1242	ND	0.052	µg/g	6/1/99	
Aroclor 1248	ND	0.052	µg/g	6/1/99	
Aroclor 1254	ND	0.052	µg/g	6/1/99	
Aroclor 1260	ND	0.052	µg/g	6/1/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc
Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV641-27	NEA ID:	AC01723
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 053	µg/g	6/1/99	
Aroclor 1221	ND	0 053	µg/g	6/1/99	
Aroclor 1232	ND	0 053	µg/g	6/1/99	
Aroclor 1242	ND	0 053	µg/g	6/1/99	
Aroclor 1248	ND	0 053	µg/g	6/1/99	
Aroclor 1254	0 064	0 053	µg/g	6/1/99	
Aroclor 1260	ND	0 053	µg/g	6/1/99	
Total PCB Amount > Reporting Limit	0 064				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-01	NEA ID:	AC01634
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	5/29/99
Aroclor 1221	ND	0.052	µg/g	5/29/99
Aroclor 1232	ND	0.052	µg/g	5/29/99
Aroclor 1242	ND	0.052	µg/g	5/29/99
Aroclor 1248	ND	0.052	µg/g	5/29/99
Aroclor 1254	0.231	0.052	µg/g	5/29/99
Aroclor 1260	0.082	0.052	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0.313			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-02	NEA ID:	AC01635
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
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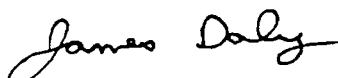
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 052	µg/g	5/29/99
Aroclor 1221	ND	0 052	µg/g	5/29/99
Aroclor 1232	ND	0 052	µg/g	5/29/99
Aroclor 1242	ND	0 052	µg/g	5/29/99
Aroclor 1248	ND	0 052	µg/g	5/29/99
Aroclor 1254	0 251	0 052	µg/g	5/29/99
Aroclor 1260	0 086	0 052	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0 337			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-03	NEA ID:	AC01636
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.052	µg/g	5/29/99
Aroclor 1221	ND	0.052	µg/g	5/29/99
Aroclor 1232	ND	0.052	µg/g	5/29/99
Aroclor 1242	ND	0.052	µg/g	5/29/99
Aroclor 1248	ND	0.052	µg/g	5/29/99
Aroclor 1254	0.197	0.052	µg/g	5/29/99
Aroclor 1260	0.129	0.052	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0.326			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-04	NEA ID:	AC01637
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	5/29/99
Aroclor 1221	ND	0.051	µg/g	5/29/99
Aroclor 1232	ND	0.051	µg/g	5/29/99
Aroclor 1242	ND	0.051	µg/g	5/29/99
Aroclor 1248	ND	0.051	µg/g	5/29/99
Aroclor 1254	0.255	0.051	µg/g	5/29/99
Aroclor 1260	0.123	0.051	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0.378			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-05	NEA ID:	AC01638
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/g	5/29/99	
Aroclor 1221	ND	0 051	µg/g	5/29/99	
Aroclor 1232	ND	0 051	µg/g	5/29/99	
Aroclor 1242	ND	0 051	µg/g	5/29/99	
Aroclor 1248	ND	0 051	µg/g	5/29/99	
Aroclor 1254	0 282	0 051	µg/g	5/29/99	
Aroclor 1260	0 122	0 051	µg/g	5/29/99	
Total PCB Amount > Reporting Limit	0 404				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert F Wagner Laboratory Director

NORTHEAST ANALYTICAL

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-06	NEA ID:	AC01639
MATRIX :	FISH	DATE SAMPLED:	4/22/99 TIME: N/A
DATE RECEIVED:	4/27/99	TIME:	10 00 PROJECT: 4517
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	5/29/99
Aroclor 1221	ND	0.051	µg/g	5/29/99
Aroclor 1232	ND	0.051	µg/g	5/29/99
Aroclor 1242	ND	0.051	µg/g	5/29/99
Aroclor 1248	ND	0.051	µg/g	5/29/99
Aroclor 1254	0.150	0.051	µg/g	5/29/99
Aroclor 1260	0.072	0.051	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0.222			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-07 NEA ID: AC01640

MATRIX : FISH DATE SAMPLED: 4/22/99 TIME: N/A

DATE RECEIVED: 4/27/99 TIME: 10 00 PROJECT: 4517

SAMPLED BY: K BARNHILL LOCATION: LAKE HARTWELL SC

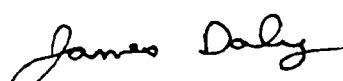
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/g	5/29/99	
Aroclor 1221	ND	0 050	µg/g	5/29/99	
Aroclor 1232	ND	0 050	µg/g	5/29/99	
Aroclor 1242	ND	0 050	µg/g	5/29/99	
Aroclor 1248	ND	0 050	µg/g	5/29/99	
Aroclor 1254	0 099	0 050	µg/g	5/29/99	
Aroclor 1260	ND	0 050	µg/g	5/29/99	
Total PCB Amount > Reporting Limit	0 099				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-08	NEA ID:	AC01641
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 054	µg/g	5/29/99	
Aroclor 1221	ND	0 054	µg/g	5/29/99	
Aroclor 1232	ND	0 054	µg/g	5/29/99	
Aroclor 1242	ND	0 054	µg/g	5/29/99	
Aroclor 1248	ND	0 054	µg/g	5/29/99	
Aroclor 1254	0 066	0 054	µg/g	5/29/99	
Aroclor 1260	ND	0 054	µg/g	5/29/99	
Total PCB Amount > Reporting Limit	0 066				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-09	NEA ID:	AC01642
MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/g	5/29/99
Aroclor 1221	ND	0.054	µg/g	5/29/99
Aroclor 1232	ND	0.054	µg/g	5/29/99
Aroclor 1242	ND	0.054	µg/g	5/29/99
Aroclor 1248	ND	0.054	µg/g	5/29/99
Aroclor 1254	0.140	0.054	µg/g	5/29/99
Aroclor 1260	0.058	0.054	µg/g	5/29/99
Total PCB Amount > Reporting Limit	0.198			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

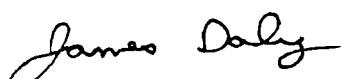
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MATRIX :	FISH	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.053	µg/g	5/29/99	
Aroclor 1221	ND	0.053	µg/g	5/29/99	
Aroclor 1232	ND	0.053	µg/g	5/29/99	
Aroclor 1242	ND	0.053	µg/g	5/29/99	
Aroclor 1248	ND	0.053	µg/g	5/29/99	
Aroclor 1254	0.226	0.053	µg/g	5/29/99	
Aroclor 1260	0.088	0.053	µg/g	5/29/99	
Total PCB Amount > Reporting Limit	0.314				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

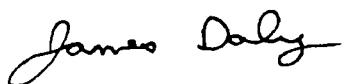
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MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 052	µg/g	5/30/99	
Aroclor 1221	ND	0 052	µg/g	5/30/99	
Aroclor 1232	ND	0 052	µg/g	5/30/99	
Aroclor 1242	ND	0 052	µg/g	5/30/99	
Aroclor 1248	ND	0 052	µg/g	5/30/99	
Aroclor 1254	0 546	0 052	µg/g	5/30/99	
Aroclor 1260	0 180	0 052	µg/g	5/30/99	
Total PCB Amount > Reporting Limit	0 726				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

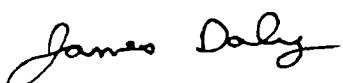
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MATRIX :	FISH	DATE SAMPLED:	4/23/90
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.055	µg/g	5/31/99	
Aroclor 1221	ND	0.055	µg/g	5/31/99	
Aroclor 1232	ND	0.055	µg/g	5/31/99	
Aroclor 1242	ND	0.055	µg/g	5/31/99	
Aroclor 1248	ND	0.055	µg/g	5/31/99	
Aroclor 1254	0.491	0.055	µg/g	5/31/99	
Aroclor 1260	0.107	0.055	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	0.598				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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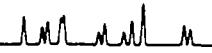
Robert E Wagner Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055



CERTIFICATE OF ANALYSIS

6/8/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-13	NEA ID:	AC01661
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.050	µg/g	5/31/99
Aroclor 1221	ND	0.050	µg/g	5/31/99
Aroclor 1232	ND	0.050	µg/g	5/31/99
Aroclor 1242	ND	0.050	µg/g	5/31/99
Aroclor 1248	ND	0.050	µg/g	5/31/99
Aroclor 1254	0.116	0.050	µg/g	5/31/99
Aroclor 1260	ND	0.050	µg/g	5/31/99
Total PCB Amount > Reporting Limit	0.116			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analytic concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-14	NEA ID:	AC01662
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL, SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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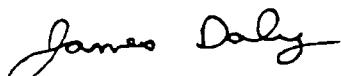
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 055	µg/g	5/31/99
Aroclor 1221	ND	0 055	µg/g	5/31/99
Aroclor 1232	ND	0 055	µg/g	5/31/99
Aroclor 1242	ND	0 055	µg/g	5/31/99
Aroclor 1248	ND	0 055	µg/g	5/31/99
Aroclor 1254	0 240	0 055	µg/g	5/31/99
Aroclor 1260	0 055	0 055	µg/g	5/31/99
Total PCB Amount > Reporting Limit	0 295			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-15	NEA ID:	AC01663
MATRIX :	FISH	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 053	µg/g	5/31/99	
Aroclor 1221	ND	0 053	µg/g	5/31/99	
Aroclor 1232	ND	0 053	µg/g	5/31/99	
Aroclor 1242	ND	0 053	µg/g	5/31/99	
Aroclor 1248	ND	0 053	µg/g	5/31/99	
Aroclor 1254	0 438	0 053	µg/g	5/31/99	
Aroclor 1260	0 080	0 053	µg/g	5/31/99	
Total PCB Amount > Reporting Limit	0 518				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-16	NEA ID:	AC01793
MATRIX :	FISH	DATE SAMPLED:	4/28/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 051	µg/g	6/4/99
Aroclor 1221	ND	0 051	µg/g	6/4/99
Aroclor 1232	ND	0 051	µg/g	6/4/99
Aroclor 1242	ND	0 051	µg/g	6/4/99
Aroclor 1248	ND	0 051	µg/g	6/4/99
Aroclor 1254	0 375	0 051	µg/g	6/4/99
Aroclor 1260	0 136	0 051	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0 511			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-17	NEA ID:	AC01794
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 055	µg/g	6/4/99	
Aroclor 1221	ND	0 055	µg/g	6/4/99	
Aroclor 1232	ND	0 055	µg/g	6/4/99	
Aroclor 1242	ND	0 055	µg/g	6/4/99	
Aroclor 1248	ND	0 055	µg/g	6/4/99	
Aroclor 1254	0 807	0 055	µg/g	6/4/99	
Aroclor 1260	0 150	0 055	µg/g	6/4/99	
Total PCB Amount > Reporting Limit	0 957				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV642-18	NEA ID:	AC01795
MATRIX :	FISH	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 052	µg/g	6/4/99
Aroclor 1221	ND	0 052	µg/g	6/4/99
Aroclor 1232	ND	0 052	µg/g	6/4/99
Aroclor 1242	ND	0 052	µg/g	6/4/99
Aroclor 1248	ND	0 052	µg/g	6/4/99
Aroclor 1254	0 260	0 052	µg/g	6/4/99
Aroclor 1260	0 095	0 052	µg/g	6/4/99
Total PCB Amount > Reporting Limit	0 355			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-642-19	NEA ID:	AC02313
MATRIX :	FISH	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/g	6/5/99
Aroclor 1221	ND	0.051	µg/g	6/5/99
Aroclor 1232	ND	0.051	µg/g	6/5/99
Aroclor 1242	ND	0.051	µg/g	6/5/99
Aroclor 1248	ND	0.051	µg/g	6/5/99
Aroclor 1254	0.201	0.051	µg/g	6/5/99
Aroclor 1260	0.055	0.051	µg/g	6/5/99
Total PCB Amount > Reporting Limit	0.256			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-642-20	NEA ID:	AC02314
MATRIX :	FISH	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 110	µg/g	6/5/99	
Aroclor 1221	ND	0 110	µg/g	6/5/99	
Aroclor 1232	ND	0 110	µg/g	6/5/99	
Aroclor 1242	ND	0 110	µg/g	6/5/99	
Aroclor 1248	ND	0 110	µg/g	6/5/99	
Aroclor 1254	0 621	0 110	µg/g	6/5/99	
Aroclor 1260	0 137	0 110	µg/g	6/5/99	
Total PCB Amount > Reporting Limit	0 758				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-642-21	NEA ID:	AC02315
MATRIX :	FISH	DATE SAMPLED:	5/11/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 101	µg/g	6/5/99
Aroclor 1221	ND	0 101	µg/g	6/5/99
Aroclor 1232	ND	0 101	µg/g	6/5/99
Aroclor 1242	ND	0 101	µg/g	6/5/99
Aroclor 1248	ND	0 101	µg/g	6/5/99
Aroclor 1254	0 831	0 101	µg/g	6/5/99
Aroclor 1260	0 247	0 101	µg/g	6/5/99
Total PCB Amount > Reporting Limit	1 08			

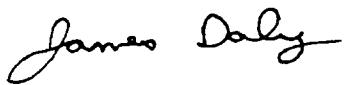
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

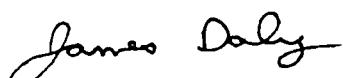
CUSTOMER ID:	SV-642-22	NEA ID:	AC02318
MATRIX :	FISH	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.314	µg/g	6/5/99	
Aroclor 1221	ND	0.314	µg/g	6/5/99	
Aroclor 1232	ND	0.314	µg/g	6/5/99	
Aroclor 1242	ND	0.314	µg/g	6/5/99	
Aroclor 1248	ND	0.314	µg/g	6/5/99	
Aroclor 1254	4.01	0.314	µg/g	6/5/99	
Aroclor 1260	0.724	0.314	µg/g	6/5/99	
Total PCB Amount > Reporting Limit	4.73				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	SV-642-23	NEA ID:	AC02319
MATRIX :	FISH	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.053	µg/g	6/5/99
Aroclor 1221	ND	0.053	µg/g	6/5/99
Aroclor 1232	ND	0.053	µg/g	6/5/99
Aroclor 1242	ND	0.053	µg/g	6/5/99
Aroclor 1248	ND	0.053	µg/g	6/5/99
Aroclor 1254	ND	0.053	µg/g	6/5/99
Aroclor 1260	ND	0.053	µg/g	6/5/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

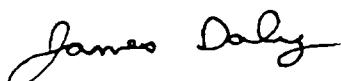
CUSTOMER ID:	SV-642-24	NEA ID:	AC02320
MATRIX :	FISH	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.051	µg/g	6/5/99	
Aroclor 1221	ND	0.051	µg/g	6/5/99	
Aroclor 1232	ND	0.051	µg/g	6/5/99	
Aroclor 1242	ND	0.051	µg/g	6/5/99	
Aroclor 1248	ND	0.051	µg/g	6/5/99	
Aroclor 1254	0.381	0.051	µg/g	6/5/99	
Aroclor 1260	0.087	0.051	µg/g	6/5/99	
Total PCB Amount > Reporting Limit	0.468				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

Appendix D
Data Quality

NORTHEAST ANALYTICAL

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01537 M	=	113	µg/g
AMOUNT SPIKED	=	10.1	µg/g
PERCENT RECOVERY	=	108	%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01537 K	=	11.4	µg/g
AMOUNT SPIKED	=	10.4	µg/g
PERCENT RECOVERY	=	106	%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01537 M	=	108	%
AC01537 K	=	106	%
PERCENT DIFFERENCE	=	1.87	%

LABORATORY CONTROL SPIKE % RECOVERY

AC01537 L	=	10.1	µg/g
AMOUNT SPIKED	=	10.4	µg/g
PERCENT RECOVERY	=	97.1	%

LABORATORY METHOD BLANK

AC01537 B = <<0.0 µg/g

AUTHORIZED SIGNATURE: 

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01519 M	=	10.3	µg/g
AMOUNT SPIKED	=	10.1	µg/g
PERCENT RECOVERY	-	97.1	%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01519 K	=	9.94	µg/g
AMOUNT SPIKED	=	10.0	µg/g
PERCENT RECOVERY	-	94.4	%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01519 M	=	97.1	%
AC01519 K	=	94.4	%
PERCENT DIFFERENCE	=	2.82	%

LABORATORY CONTROL SPIKE % RECOVERY

AC01519 L	-	10.4	µg/g
AMOUNT SPIKED	=	10.2	µg/g
PERCENT RECOVERY	=	102	%

LABORATORY METHOD BLANK

AC01519 H = <0.052 µg/g

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Robert F. Wagner, Laboratory Director

NORTHEAST ANALYTICAL**ENVIRONMENTAL LAB SERVICES**

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX. (518) 381-6055

CERTIFICATE OF ANALYSIS

8/10/99

ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01640 M	-	10.6	µg/g
AMOUNT SPIKED	=	10.2	µg/g
PERCENT RECOVERY	=	103	%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01640 K	-	10.1	µg/g
AMOUNT SPIKED	=	10.1	µg/g
PERCENT RECOVERY	=	100	%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01640 M	-	103	%
AC01640 K	=	100	%
PERCENT DIFFERENCE	=	2.96	%

LABORATORY CONTROL SPIKE % RECOVERY

AC01640 L	-	11.1	µg/g
AMOUNT SPIKED	-	10.5	µg/g
PERCENT RECOVERY	-	106	%

LABORATORY METHOD BLANK

AC01640 B 0.052 µg/g

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

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LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01660 M	=	11.3	µg/g
AMOUNT SPIKED	=	11.0	µg/g
PERCENT RECOVERY	=	104	%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01660 K	=	11.0	µg/g
AMOUNT SPIKED	=	10.9	µg/g
PERCENT RECOVERY	=	99.9	%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01660 M	=	104	%
AC01660 K	=	99.9	%
PERCENT DIFFERENCE	=	4.02	%

LABORATORY CONTROL SPIKE % RECOVERY

AC01660 I	=	10.7	µg/g
AMOUNT SPIKED	=	10.7	µg/g
PERCENT RECOVERY	=	100	%

LABORATORY METHOD BLANK

AC01660 B	=	0.053	µg/g
-----------	---	-------	------

AUTHORIZED SIGNATURE.

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Robert E. Wagner, Laboratory Director

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LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01613 M	=	0.79 µg/g
AMOUNT SPIKED	=	0.94 µg/g
PERCENT RECOVERY	=	97.0 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01613 K	=	10.4 µg/g
AMOUNT SPIKED	=	10.2 µg/g
PERCENT RECOVERY	=	100 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01613 M	=	97.0 %
AC01613 K	=	100 %
PERCENT DIFFERENCE	=	3.05 %

LABORATORY CONTROL SPIKE % RECOVERY

AC01613 L	=	10.1 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	97.1 %

LABORATORY METHOD BLANK

AC01613 B = <0.052 µg/g

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LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01595 M	=	10.9 µg/g
AMOUNT SPIKED	=	10.5 µg/g
PERCENT RECOVERY	-	98.7 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01595 K	=	10.7 µg/g
AMOUNT SPIKED	=	10.5 µg/g
PERCENT RECOVERY	-	96.8 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01595 M	=	98.7 %
AC01595 K	=	96.8 %
PERCENT DIFFERENCE	-	1.94 %

LABORATORY CONTROL SPIKE % RECOVERY

AC01595 L	=	10.2 µg/g
AMOUNT SPIKED	=	9.98 µg/g
PERCENT RECOVERY	-	102 %

LABORATORY METHOD BLANK

AC01595 B = <0.052 µg/g

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Northeast Analytical, Inc
Robert L. Wagner, Laboratory Director

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BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL**LABORATORY MATRIX SPIKE % RECOVERY**

AC01579 M	=	9.82 µg/g
AMOUNT SPIKED	=	10.2 µg/g
PERCENT RECOVERY	=	92.4 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AC01579 K	=	10.3 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	95.3 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AC01579 M	=	92.4 %
AC01579 K	=	95.3 %
PERCENT DIFFERENCE	=	3.09 %

LABORATORY CONTROL SPIKE % RECOVERY

AC01579 L	=	10.6 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	102 %

LABORATORY METHOD BLANK

AC01579 B	=	<0.052 µg/g
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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director

NORTHEAST ANALYTICAL ENVIRONMENTAL LAB SERVICES

301 Nott Street, Schenectady, NY 12305
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CERTIFICATE OF ANALYSIS

MAY 18, 1999

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC01524 (SV107-06)	=	11.6 µg/g
AC01524 (SV107-06D)	=	10.9 µg/g
PERCENT DIFFERENCE	=	6.22%

LABORATORY DUPLICATE % DIFFERENCE

AC01532 (SV107-26)	=	2.19 µg/g
AC01532 (SV107-26D)	=	2.78 µg/g
PERCENT DIFFERENCE	=	23.7%

LABORATORY DUPLICATE % DIFFERENCE

AC01538 (SV106-05)	=	4.94 µg/g
AC01538 (SV106-05D)	=	5.82 µg/g
PERCENT DIFFERENCE	=	16.4%

Authorized Signature:

Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308
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CERTIFICATE OF ANALYSIS

JUNE 2, 1999

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC01580 (SV106-15)	=	1.62 µg/g
AC01580D(SV106-15)	=	1.81 µg/g
PERCENT DIFFERENCE	=	11.1%

LABORATORY DUPLICATE % DIFFERENCE

AC01590R(SV532-10)	=	1.41 µg/g
AC01590D(SV532-10)	=	1.19 µg/g
PERCENT DIFFERENCE	=	16.9%

LABORATORY DUPLICATE % DIFFERENCE

AC01597 (SV532-17)	=	0.494 µg/g
AC01597D(SV532-17)	=	0.600 µg/g
PERCENT DIFFERENCE	=	19.4%

LABORATORY DUPLICATE % DIFFERENCE

AC01603 (SV532-23)	=	1.25 µg/g
AC01603D(SV532-23)	=	0.540 µg/g
PERCENT DIFFERENCE	=	79.3%

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Robert E. Wagner, Laboratory Director

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CERTIFICATE OF ANALYSIS

JUNE 9, 1999

ERM SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC01625 (SV535-11)	=	2.10 µg/g
AC01625D(SV535-11D)	=	1.23 µg/g
PERCENT DIFFERENCE	=	52.2%

LABORATORY DUPLICATE % DIFFERENCE

AC01634 (SV642-01)	=	0.313 µg/g
AC01634D(SV642-01D)	=	0.290 µg/g
PERCENT DIFFERENCE	=	7.63%

LABORATORY DUPLICATE % DIFFERENCE

AC01644 (SV641-01)	=	0.085 µg/g
AC01644D(SV641-01D)	=	0.148 µg/g
PERCENT DIFFERENCE	=	54.1%

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LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC01659 (SV642-11)	=	0.726 µg/g
AC01659D(SV642-11D)	=	0.669 µg/g
PERCENT DIFFERENCE	=	8.17%

LABORATORY DUPLICATE % DIFFERENCE

AC01664 (SV641-12)	=	1.62 µg/g
AC01664D(SV641-12D)	=	1.12 µg/g
PERCENT DIFFERENCE	=	36.5%

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BRENTWOOD, TN 37027
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LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC01784 (SV107-19)	=	1.19 µg/g
AC01784D(SV107-19D)	=	2.06 µg/g
PERCENT DIFFERENCE	=	53.5%

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Robert E. Wagner, Laboratory Director

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JUNE 11, 1999

ERM SOUTHEAST, INC.
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SUITE 228
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CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY DUPLICATE % DIFFERENCE

AC02323 (SD-008)	=	3.35 µg/g
AC02324 (SV-008 DUP)	=	2.04 µg/g
PERCENT DIFFERENCE	=	48.6%

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Northeast Analytical, Inc.

Robert E Wagner, Laboratory Director

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ERM- SOUTHEAST, INC.
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

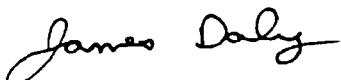
CUSTOMER ID:	TRIP BLANK	NEA ID:	AC02327
MATRIX :	WATER	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.057	µg/L	6/9/99	
Aroclor 1221	ND	0.057	µg/L	6/9/99	
Aroclor 1232	ND	0.057	µg/L	6/9/99	
Aroclor 1242	ND	0.057	µg/L	6/9/99	
Aroclor 1248	ND	0.057	µg/L	6/9/99	
Aroclor 1254	ND	0.057	µg/L	6/9/99	
Aroclor 1260	ND	0.057	µg/L	6/9/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



Northeast Analytical Inc

Robert E. Wagner Laboratory Director

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ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RINSE BLANK	NEA ID:	AC02328
MATRIX :	WATER	DATE SAMPLED:	5/12/99
DATE RECEIVED:	5/14/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.057	µg/L	6/9/99
Aroclor 1221	ND	0.057	µg/L	6/9/99
Aroclor 1232	ND	0.057	µg/L	6/9/99
Aroclor 1242	ND	0.057	µg/L	6/9/99
Aroclor 1248	ND	0.057	µg/L	6/9/99
Aroclor 1254	ND	0.057	µg/L	6/9/99
Aroclor 1260	ND	0.057	µg/L	6/9/99

Total PCB Amount > Reporting Limit 0

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner Laboratory Director

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	TRIP BLANK-4	NEA ID:	AC01779
MATRIX :	WATER	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/L	6/9/99
Aroclor 1221	ND	0.051	µg/L	6/9/99
Aroclor 1232	ND	0.051	µg/L	6/9/99
Aroclor 1242	ND	0.051	µg/L	6/9/99
Aroclor 1248	ND	0.051	µg/L	6/9/99
Aroclor 1254	ND	0.051	µg/L	6/9/99
Aroclor 1260	ND	0.051	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CUSTOMER ID:	RINSE BLANK-6	NEA ID:	AC01780
MATRIX :	WATER	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQI	UNITS	DATE TESTED	FLAGS
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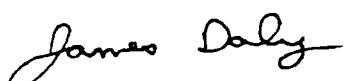
SW-846 Method 8082. Polychlorinated Biphenyls

Aroclor 1016	ND	0.057	µg/L	6/9/99
Aroclor 1221	ND	0.057	µg/L	6/9/99
Aroclor 1232	ND	0.057	µg/L	6/9/99
Aroclor 1242	ND	0.057	µg/L	6/9/99
Aroclor 1248	ND	0.057	µg/L	6/9/99
Aroclor 1254	ND	0.057	µg/L	6/9/99
Aroclor 1260	ND	0.057	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RINSE BLANK-7	NEA ID:	AC01781
MATRIX :	WATER	DATE SAMPLED:	4/29/99
DATE RECEIVED:	5/1/99	TIME:	11 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 053	µg/L	6/9/99
Aroclor 1221	ND	0 053	µg/L	6/9/99
Aroclor 1232	ND	0 053	µg/L	6/9/99
Aroclor 1242	ND	0 053	µg/L	6/9/99
Aroclor 1248	ND	0 053	µg/L	6/9/99
Aroclor 1254	ND	0 053	µg/L	6/9/99
Aroclor 1260	ND	0 053	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	TRIP BLANK-1	NEA ID:	AC01551
MATRIX :	WATER	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
PROJECT:	4517	SAMPLED BY:	J ORR
LOCATION:	LAKE HARTWELL SC	CUSTOMER PO:	N/A
LAB ELAP #:	11078		

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/L	6/9/99
Aroclor 1221	ND	0.051	µg/L	6/9/99
Aroclor 1232	ND	0.051	µg/L	6/9/99
Aroclor 1242	ND	0.051	µg/L	6/9/99
Aroclor 1248	ND	0.051	µg/L	6/9/99
Aroclor 1254	ND	0.051	µg/L	6/9/99
Aroclor 1260	ND	0.051	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RINSE BLANK-I	NEA ID:	AC01552
MATRIX :	WATER	DATE SAMPLED:	4/20/99
DATE RECEIVED:	4/22/99	TIME:	10 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/L	6/9/99
Aroclor 1221	ND	0.051	µg/L	6/9/99
Aroclor 1232	ND	0.051	µg/L	6/9/99
Aroclor 1242	ND	0.051	µg/L	6/9/99
Aroclor 1248	ND	0.051	µg/L	6/9/99
Aroclor 1254	ND	0.051	µg/L	6/9/99
Aroclor 1260	ND	0.051	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert F. Wagner, Laboratory Director

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

6/10/99

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	TRIP BLK-2	NEA ID:	AC01616
MATRIX :	WATER	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	I ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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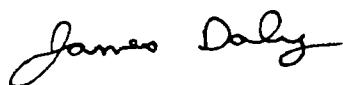
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.053	µg/L	6/9/99
Aroclor 1221	ND	0.053	µg/L	6/9/99
Aroclor 1232	ND	0.053	µg/L	6/9/99
Aroclor 1242	ND	0.053	µg/L	6/9/99
Aroclor 1248	ND	0.053	µg/L	6/9/99
Aroclor 1254	ND	0.053	µg/L	6/9/99
Aroclor 1260	ND	0.053	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

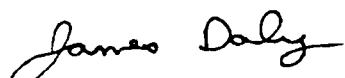
CUSTOMER ID:	TRIP BLK-3	NEA ID:	AC01617
MATRIX :	WATER	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	I ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0 051	µg/L	6/9/99	
Aroclor 1221	ND	0 051	µg/L	6/9/99	
Aroclor 1232	ND	0 051	µg/L	6/9/99	
Aroclor 1242	ND	0 051	µg/L	6/9/99	
Aroclor 1248	ND	0 051	µg/L	6/9/99	
Aroclor 1254	ND	0 051	µg/L	6/9/99	
Aroclor 1260	ND	0 051	µg/L	6/9/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERMI- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

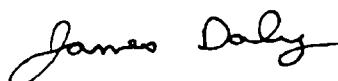
CUSTOMER ID:	RINSE BLK-2	NEA ID:	AC01618
MATRIX :	WATER	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0 050	µg/L	6/9/99	
Aroclor 1221	ND	0 050	µg/L	6/9/99	
Aroclor 1232	ND	0 050	µg/L	6/9/99	
Aroclor 1242	ND	0 050	µg/L	6/9/99	
Aroclor 1248	ND	0 050	µg/L	6/9/99	
Aroclor 1254	ND	0 050	µg/L	6/9/99	
Aroclor 1260	ND	0 050	µg/L	6/9/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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6/10/99

ERM-SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RINSE BLK-3	NEA ID:	AC01619
MATRIX:	WATER	DATE SAMPLED:	4/21/99
DATE RECEIVED:	4/23/99	TIME:	9 00
SAMPLED BY:	J ORR	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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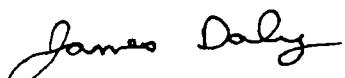
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.051	µg/L	6/9/99
Aroclor 1221	ND	0.051	µg/L	6/9/99
Aroclor 1232	ND	0.051	µg/L	6/9/99
Aroclor 1242	ND	0.051	µg/L	6/9/99
Aroclor 1248	ND	0.051	µg/L	6/9/99
Aroclor 1254	ND	0.051	µg/L	6/9/99
Aroclor 1260	ND	0.051	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	TB-4	NEA ID:	AC01655
MATRIX :	WATER	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.054	µg/L	6/9/99
Aroclor 1221	ND	0.054	µg/L	6/9/99
Aroclor 1232	ND	0.054	µg/L	6/9/99
Aroclor 1242	ND	0.054	µg/L	6/9/99
Aroclor 1248	ND	0.054	µg/L	6/9/99
Aroclor 1254	ND	0.054	µg/L	6/9/99
Aroclor 1260	ND	0.054	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director

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ERMI- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RB-4	NEA ID:	AC01656
MATRIX :	WATER	DATE SAMPLED:	4/22/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	PROJECT:	4517
CUSTOMER PO:	N/A	LOCATION:	LAKE HARTWELL, SC
		LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTFD	FLAGS
SW-846 Method 8082. Polychlorinated Biphenyls					
Aroclor 1016	ND	0.054	µg/L	6/9/99	
Aroclor 1221	ND	0.054	µg/L	6/9/99	
Aroclor 1232	ND	0.054	µg/L	6/9/99	
Aroclor 1242	ND	0.054	µg/L	6/9/99	
Aroclor 1248	ND	0.054	µg/L	6/9/99	
Aroclor 1254	ND	0.054	µg/L	6/9/99	
Aroclor 1260	ND	0.054	µg/L	6/9/99	
Total PCB Amount > Reporting Limit	0				

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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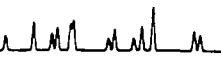
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	TB-5	NEA ID:	AC01677
MATRIX :	WATER	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.056	µg/L	6/9/99
Aroclor 1221	ND	0.056	µg/L	6/9/99
Aroclor 1232	ND	0.056	µg/L	6/9/99
Aroclor 1242	ND	0.056	µg/L	6/9/99
Aroclor 1248	ND	0.056	µg/L	6/9/99
Aroclor 1254	ND	0.056	µg/L	6/9/99
Aroclor 1260	ND	0.056	µg/L	6/9/99
Total PCB Amount > Reporting Limit	0			

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID:	RB-5	NEA ID:	AC01678
MATRIX:	WATER	DATE SAMPLED:	4/23/99
DATE RECEIVED:	4/27/99	TIME:	10 00
SAMPLED BY:	K BARNHILL	LOCATION:	LAKE HARTWELL SC
CUSTOMER PO:	N/A	LAB ELAP #:	11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
SW-846 Method 8082, Polychlorinated Biphenyls					
Aroclor 1016	ND	0.056	µg/L	6/9/99	
Aroclor 1221	ND	0.056	µg/L	6/9/99	
Aroclor 1232	ND	0.056	µg/L	6/9/99	
Aroclor 1242	ND	0.056	µg/L	6/9/99	
Aroclor 1248	ND	0.056	µg/L	6/9/99	
Aroclor 1254	ND	0.056	µg/L	6/9/99	
Aroclor 1260	ND	0.056	µg/L	6/9/99	
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Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

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Mr Jim Orr
ERM -Southeast, Inc.
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

Case Narrative for Clemson and Lake Hartwell Sediment Samples received on May 3, 1999 and May 7, 1999

Nine sediment sample were received on 5/3/99 (NEA Sample ID#s AC01770-AC01778) and seven sediment samples were received on 5/7/99 (NEA sample ID#s AC01870-1876) for analysis for Polychlorinated Biphenyls by EPA Method 8082. Both groups of samples were collected on 4/29/99. All samples were extracted via EPA Method 3545 (Accelerated Solvent Extraction) on 5/10/99. Upon analysis several samples along with the associated extraction blank were found to exhibit Aroclor 1248 contamination. Aroclor 1248 is not normally observed at these sampling sites. The samples were re-extracted on 5/14/99, one day past the method prescribed extraction holding time and were subsequently re-analyzed. The re-extracted/re-analyzed concentration results were similar to the original concentration results with the exception that Aroclor 1248 was not observed in the secondary analysis. The re-extracted/re-analyzed results have been reported. Both analysis results have been retained by the laboratory for future reference.

Sincerely,



Northeast Analytical Inc
William A. Kotas
Quality Assurance Officer

8/10/99\sc\cat\by\case\060399\1.DOC